

PRANU KUMAR
Sr. Software Developer
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Career Objective

Results-driven Senior Software Developer with 13+ years of experience in designing and delivering scalable web applications, enterprise solutions, and cloud-native microservices. Proven expertise in e-Governance, ERP, MIS, and digital transformation projects.

Skilled in Java, Spring Boot, Microservices, REST APIs, System Design, SQL/NoSQL, and DevOps practices. Adept at leading teams, optimizing performance, and driving innovation through secure architectures and AI-driven solutions.

Full-Stack Java | Techno Strategist | Project Architect | Microservices, System Design & Secured e-Gov Architecture | AI for Analytics & Automation | Founder – mithilakshar.org | pranukumar.in

Work Experience: (Honors & awards – Best Engineer of the Month December 2024)

Corporate InfoTech Pvt Ltd (CIPL) (Project Under Centre for Railway Information Systems - CRIS)	Sr. Software Developer	17/10/2022 to Till Now	ITPI Building Ring Road, New Delhi
<p>❖ https://www.ireps.gov.in IREPS Portal Indian Railways (IR)</p> <p>IREPS is the official e-procurement platform of Indian Railways, developed by CRIS to streamline material procurement through a highly secure, scalable, and efficient online system. As a Senior Software Developer, I played a pivotal role in architecting, developing, and optimizing critical modules, ensuring seamless integration across 16 Zonal Railways and 6 Production Units.</p> <ul style="list-style-type: none">• E-Tender• Helpdesk• Inspection Module• Earning Leasing Tender• Goods& Service• Works Contract• E-Auction (Sale)• E-Auction Earning Commercial• Railway-GeM Integration• U-VAM (Vendor Approval)• UDM (User Depot Module)• IMMS (Integrated Material Management System) <p>Technologies: (JAVA, Spring (Core, MVC, Boot, Security, Cloud), JPA/Hibernate,REST APIs, Web Services, Micro Services,React.JS, JSP, Struts 1.3/2.0, Hibernate, PostgreSQL, Oracle, MySQL, NoSQL-MongoDB,PKI, SSL,Bootstrap, HTML, CSS, JavaScript, JQuery, Ajax, AWS)</p>	<p>✓System Architecture & Development</p> <ul style="list-style-type: none">• Designed and developed both monolithic and scalable Microservices architecture enabling modular and efficient service communication.• Led the migration of legacy monolithic systems to a distributed Microservices architecture, improving performance and maintainability.• Implemented high-performance caching strategies (Redis, Ehcache) and optimized database queries in Oracle DB, enhancing response times for procurement transactions. <p>✓Security & Compliance</p> <ul style="list-style-type: none">• Integrated asymmetric cryptography, PKI-based digital signatures, and 128-bit VeriSign SSL encryption to ensure secure transactions.• Integrated PKI-based digital signatures, SSL encryption, RBAC, and MFA to meet IT Act 2000 and Ministry of Railways compliance.• Conducted security reviews and penetration tests with STQC & DIT to ensure compliance with national standards. <p>✓System Integration & API Development</p> <ul style="list-style-type: none">• Engineered RESTful APIs to enable seamless integration with payment gateways, vendor management systems, and internal railway procurement modules.• Developed data synchronization mechanisms to maintain real-time consistency across distributed procurement services.• Worked closely with cross-functional teams to enhance system interoperability with government digital initiatives. <p>✓DevOps & Cloud Coordination</p> <ul style="list-style-type: none">• Strong leadership in mentoring dev teams and collaborating with government stakeholders under Digital India initiatives. <p>✓Leadership & Mentorship</p> <ul style="list-style-type: none">• Led a team of developers, conducting code reviews, technical training sessions, and knowledge-sharing workshops to enhance team productivity.• Collaborated with business analysts, project managers, and government stakeholders to translate procurement requirements into scalable software solutions. <p>This experience has strengthened my expertise in enterprise software architecture, cloud-native development, and secure e-Governance solutions, making me a key contributor to large-scale digital transformation initiatives.</p>		

NATIONAL INFORMATICS CENTRE (NIC) - SISL INFOTECH PVT LTD	Sr. Software Developer	01/09/2021 to 14/10/2022	Lucknow
<p>❖ eNagarSeva UP <u>e-nagarsewaup.gov.in</u></p> <p>E-NagarSewa Portal for Urban Local Bodies Uttar Pradesh -</p> <ul style="list-style-type: none"> • House/Water Tax • Online Property Mutation • Online Trade Licence • Online Water/Sewerage Connection • Online Signage/ Advertisement • Online Food NOC • Online Piped Water Unavailability NOC • Online Fire Hydrant. • Online Public Grievance • Online property assessment • Monthly Progress Report <p>(Spring (Core, MVC, Boot), JPA/Hibernate, REST APIs, Web Services, Micro Services, JSP, Struts 1.3/2.0, Hibernate, PostgreSQL, Oracle, Bootstrap, HTML, CSS, JavaScript, JQuery, Ajax)</p> <p>❖ eNagarSeva PBMC <u>pbmc.gov.in</u></p> <p>PortBlair Municipal Council</p> <ul style="list-style-type: none"> • House Tax, • Water Tax, • Shop Rent, • Online Public Grievances • Property Assessment • Online Water Connection <p>(Spring MVC, PostgreSQL)</p>	<ul style="list-style-type: none"> • Delivered scalable, secure enterprise applications using Java/J2EE, Spring Boot, and RESTful APIs, with a strong focus on e-Governance solutions. • Led end-to-end development across SDLC phases— requirements, design, development, testing, deployment, and maintenance. • Built responsive frontends with ReactJS, AngularJS, HTML5, and JavaScript; integrated with robust backend services. • Engineered complex database solutions with PL/SQL, stored procedures, and performance-optimized queries in Oracle, PostgreSQL, and MySQL MongoDB. • Hands-on with WebLogic, JBoss, Tomcat, and tools like Eclipse, STS, and NetBeans. • Applied design patterns (MVC, DAO, DTO) to ensure maintainable and scalable codebases. • Proficient in n-tier architecture development using Java, J2EE, JSP, Servlets, Spring Framework (Spring Boot, Spring MVC, Spring Security, Spring Data JPA). • Hands-on experience with multithreading, serialization, collections, and generics, optimizing application performance. • Strong debugging and defect resolution skills, including performance tuning and root cause analysis. • Worked across various project life cycles, contributing to UI design, backend development, and business logic implementation. • Experienced in software version control using Git, SVN, and CVS. • Proficient in JSON and XML technologies, including XSL, XSLT, XPath, and parsers like SAX, DOM, and JAXB. • Familiar with Agile (SCRUM) methodologies, participating in daily stand-ups, sprint planning, and retrospectives. • Led and mentored cross-functional teams as a Technical Lead, responsible for task assignment, technical planning, code reviews, and performance tracking in Agile/ Scrum environments. • Worked with remote client teams, ensuring smooth collaboration and project execution. • Experienced in full lifecycle application support, from conceptual and detailed design to deployment and post-production maintenance. • Adept at conducting functional and technical training sessions, ensuring knowledge transfer to junior developers and cross-functional teams. • Skilled in IDEs & Tools: Spring Tool Suite (STS), Eclipse, NetBeans. • Strong communication and presentation skills, with experience delivering technical presentations and training sessions to senior management and stakeholders. <p>Successfully coordinated major government projects such as</p> <ul style="list-style-type: none"> • e-nagarsewaup.gov.in, Dept. of Urban Development, UP & PortBlair 		

Work Experience: 8 Year

I.T. Academics (P) LTD & MCSGEOTECH (P) LTD	Team Leader & Sr. Software Developer	28/12/2013-31-08-2021	Lucknow
<ul style="list-style-type: none"> ❖ HPSAMB - hpsamb.org ❖ MC Mananali - mcmanali.in ❖ Housing 4 All (PMAY UP) ❖ OSCNGT.UPSDC.GOV.IN ❖ AYUSH Medicine Management System ❖ ESM Registration System ❖ EPF Software ❖ Random Inspection System ❖ Water Bodies Data Monitoring System (Check Dam & Pond) ❖ Property Tax and Water Tax Management System ❖ Mutation Management System ❖ Payroll Management System ❖ Birth and Death Registration System ❖ Double Entry Accounting System ❖ License Management System ❖ Waste Disposal Management System ❖ Public Grievance Registration System ❖ Street Light Management System ❖ Online Litigation Management System ❖ Letter and File Tracking System, ❖ Inventory Management System ❖ Website of the Department ❖ , other ERP & MIS Software 	<p>Over 8 years of experience driving full-stack development and leading e-Governance projects across all phases of the SDLC—from requirements to deployment and server management (Hosting Raja & UPSDC physical servers).</p> <p>Proficient in Java/J2EE, PHP, WordPress, PrestaShop, and frontend tech like Bootstrap, jQuery, and AJAX. Led teams in code reviews, task management, and mentoring, ensuring adherence to best practices and scalable architectures.</p> <p>Delivered high-performance, secure applications with robust backend logic, UI customization, and optimized SQL/database designs.</p> <p>Managed deployments on Apache Tomcat, GlassFish, and collaborated with remote teams and clients.</p> <p>Successfully coordinated major government projects such as</p> <ul style="list-style-type: none"> • Housing for All, Dept. of Urban Development, UP • AYUSH Medicine Management System • Random Inspection System, Dept. of Legal Metrology, UP • HPSAMP • Contributing to Digital ULB, AMRUT, and training programs. <p>Led the successful development of a Digital ULB application implemented in 100+ Urban Local Bodies across multiple states including Uttar Pradesh, Uttarakhand, Himachal Pradesh, and Madhya Pradesh.</p> <p>Strong in stakeholder communication and technical documentation. Almost every client has provided an appreciation letter for projects delivered under my guidance.</p>		

EXPERIENCE: (6 Month)

Blue Earth Softwares Pvt. Ltd.	Software Developer & Concept Head Digital Marketing	10/6/2013-24/12/2013	New Delhi
<p>www.blueearthreality.com blueearthreality.wordpress.com</p> <p>Facebook Page , Linkedin , Twitter,</p> <p>Real Estate website, where promote real estate – from all the latest property listings to great information for both home buyers and sellers.</p> <p>www.blueearthsoftwares.com Facebook Page , Linkedin Company Page & more Generate Lead & create Brand Awareness</p>	<p>Led the design, development, and optimization of scalable web and enterprise applications using Java/J2EE and OOP principles.</p> <p>Delivered B2B and B2C digital solutions across e-commerce, SEO, content management, and marketing analytics.</p> <p>Managed full product lifecycles—from requirement analysis to deployment—collaborating with cross-functional teams.</p> <p>Built custom modules and APIs for campaign automation, affiliate programs, and marketing integrations.</p> <p>Enhanced digital reach through SEO tools, social media data integration, and performance-optimized content platforms.</p>		

EXPERIENCE: (1 Year)

Working for Interio Real Estate Realtors callifornia	Product & Digital Marketing Professional	07/06/2012-09/06/2013	New Delhi
<p>www.nakulkapoor.com Real Estate website, where gathered a wealth of information here to help you with all of your real estate needs – from all the latest property listings to great information for both home buyers and sellers. Key Projects: www.402violetacourt.com www.5209cribarihills.com Multiple blog-based listing microsites targeted for hyper-local search visibility. 6041-sanford-dr-san-jose-ca-95123.blogspot.in nakul95135.blogspot.in nakul95136.blogspot.in nakul94404.blogspot.in nakul95123.blogspot.in</p>	<p>Spearheaded product strategy and end-to-end lifecycle management for real estate marketing platforms catering to California-based realtors.</p> <p>Led digital marketing initiatives including SEO, email marketing, social media campaigns (Facebook, LinkedIn, Google+, YouTube), PPC, and content publishing—resulting in first-page rankings on major search engines.</p> <p>Collaborated with internal IT teams to design and deploy database-driven, lead generation websites optimized for user acquisition and engagement.</p> <p>Developed marketing strategies for new listings and open homes using video marketing, real estate networks, direct outreach, and automation tools.</p> <p>Delivered measurable results in digital campaign performance and client branding through data-driven marketing techniques.</p>		

Academic Qualifications:

- **MBA in IT Management**, Sikkim Manipal University (SMU)
- **Bachelor of Engineering (B.E.) in Computer Science – 1st Class**
Basavakalyan Engineering College, Visvesvaraya Technological University (VTU), Karnataka – 2012
- **Higher Secondary Certificate (HSC) – Science – 2nd Class**
M.L.S.M College, Darbhanga, Bihar – February 2007
- **Secondary School Certificate (SSC) – 2nd Class**
Gyan Bharti Public School, Darbhanga – March 2004

Technical Proficiency:

- ❖ **Enterprise Application Development**
 - Extensive experience in designing and developing **scalable, secure, and high-availability applications**, ensuring **reliability, maintainability, and performance**.
 - Quick adaptability to **legacy monolithic systems**, enabling efficient **modernization, migration, and enhancement**.
 - Strong **analytical and problem-solving skills**, with a focus on **performance optimization and security compliance**.
 - Works effectively with **cross-functional teams**, implementing application features across **user interfaces, business logic, and backend services**.
- ❖ **Programming Languages & Technologies**
Java (Core & Advanced), J2EE, Hibernate, React.js, Typescript, Node.js, JavaScript, CSS, SQL, HTML, Bootstrap, PrestaShop, WordPress
- ❖ **Databases**
Oracle, PostgreSQL, MySQL, MongoDB
- ❖ **Frameworks & Web Servers**
Spring (Boot, MVC, Security Data JPA), Cloud, Hibernate, JPA, Struts, JSF, Microservices, Apache Tomcat 8.0/9.0, GlassFish, JBoss EAP/WildFly, WebLogic, Jetty.
- ❖ **Development Tools**
Eclipse, IntelliJ IDEA, STS, NetBeans, Dreamweaver, PhotoScape, JIRA, Postman, Swagger, Maven, Gradle
- ❖ **Cloud & DevOps**
AWS, Azure, Kubernetes, Docker, CI/CD (Jenkins, GitLab CI), Terraform
- ❖ **Operating Systems**
Windows, macOS, UNIX/Solaris, Ubuntu
- ❖ **Concepts:**
Microservices, RESTful APIs, Eureka, Gateway, Config Server, Circuit Breaker, Resilience4j MVC, Agile/Scrum

Academic project Experience:

MINI PROJECT:

Title: A CAR MODEL **Role:** Developer **Duration:** Two weeks **Environment:** Open GL/c/c++

Project Summary: This project is about a Model View made by that is used to see the parameters of the model. This features added more or less tries to cover all the lighting, scaling, colour, fog effect, manipulation and model type modification. This also includes the use of the text on the 3-D mode.

FINAL YEAR PROJECT:

Title: "Exploiting Dynamic Resource Allocation for Efficient Parallel Data Processing in the Cloud"

Language us : Java1.4 **Technology:** Swing, AWT **Back End:** Oracle 10g **IDE:** MyEclipse

DESCRIPTION: The objective of the challenges and opportunities for efficient parallel data processing in cloud environments and presented Nephele, the first data processing framework to exploit the dynamic resource provisioning offered by today's IaaS clouds.

Index Terms—Many-Task Computing, High-Throughput Computing, Loosely Coupled Applications, Cloud Computing

Academic Seminar Topic:

- Parallel Data Processing in the Cloud Computing

Extra-Curricular Activities & Certifications:

- Completed an **Advanced Diploma in Java**, enhancing core and advanced programming skills.
- Underwent **professional Java training** at *Naidu Java International*, gaining hands-on experience in enterprise application development.
- Participated in an **Entrepreneurship Awareness Camp** at *BKEC*, developing foundational business and start-up knowledge.
- Gained **digital strategy experience** working with both international and national clients on branding and marketing initiatives.
- **Elected President** in *Inter-College Elections (2005–2007)*, demonstrating leadership, team management, and communication skills.
- **Proficient in Mithila Painting**, showcasing creativity and cultural artistry.

Core Strengths & Personal Attributes:

- Proactive, adaptable, and results-driven professional with strong analytical and problem-solving skills.
- Effective communicator and team collaborator with proven leadership potential.
- Committed to continuous learning, time management, and delivering high-quality outcomes under pressure.
- Passionate about innovation, stakeholder engagement, and driving value in every project.

PERSONAL INFORMATION:

Date of Birth : 25-02-1990
Language Proficiency : English, Hindi, Mathili.
Sex : Male
Hobbies : Playing Cricket, surfing net
Marital Status : Married
Nationality : Indian
Father's Name : Ramananda Kumar
Current Address : Pranu Kumar, S-17 Sunder Block, Shakarpur
New Delhi, Pin-110092
Permanent Address : Sri Ramananda Kumar, Village- Pithariya Kala, Po-Jogiyara
Ps-Jalley, DIST-Darbhanga, Bihar, Pin-847303

DECLARATION:

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Place: New Delhi

PRANU KUMAR