

# PRAN JYOTI PEGU

## SENIOR SOFTWARE ENGINEER

OVERALL EXPERIENCE: 6 YEARS+

NOTICE PERIOD: 30-60 Days (Negotiable)

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Results-driven **Senior Software Engineer** with over **6 years+ of experience** in designing, developing, and maintaining scalable **web and mobile applications, RESTful APIs, backend systems, and automation solutions**. Highly proficient in a versatile technology stack including **Node.js, React.js, Rust, Python, Java, React Native, Kotlin, Swift**, and both **SQL and NoSQL databases**.

Additionally, holds **practical experience in Large Language Model (LLM) integration**, having developed intelligent assistants and document-based Q&A systems using **GPT-3.5/4, local LLMs via Ollama, LangChain, and RAG techniques**. Skilled in prompt engineering, vector search, and secure API design for AI-driven applications.

## KEY SKILLS AND EXPERIENCE

Key Set	Experience	Self Rating (out of 5)	Last Used (Year)
NodeJS	6 Years	5/5	2025
ReactJS	6 Years	5/5	2025
AI/LLM/local LLM	1 Year(s)	5/5	2025
JavaScript	6 Years	5/5	2025
TypeScript	6 Years	5/5	2025
Rust	4 Years	4.5/5	2025
Python	4 Years	4/5	2025
Java	4 years	4/5	2025
Kotlin	4 Years	4.5/5	2025
Swift	3 Years	3.5/5	2025
React Native	5 Years	5/5	2025
GoLang	3 Years	4/5	2023
MongoDB	6 Years	5/5	2025

Postgres	3 Years	3/5	2023
NextJS	4 Years	4.5/5	2023
ExpressJS	6 Years	5/5	2025
Redux & Toolkit	5 Years	5/5	2025
Selenium	4 Years	4/5	2024
Web3JS	3 Years	5/5	2025
Bash Scripting	4 Years	4/5	2025
Blockchain Development	3 Years	4/5	2025
AWS(EC2, EBS, S3, SQS, SES, SNS,..)	4 Years	4.5/5	2025
AZURE	3 Years	4/5	2025
Kubernetes	3 Years	4/5	2025
CICD Pipelines	5 Years	5/5	2025
Jenkins	4 Years	4/5	2025
Github Actions	3 Years	5/5	2025
Docker	4 Years	5/5	2025
Grafana & Kibana	3 Years	4/5	2025
Jira & Confluence	4 Years	5/5	2025
SQLite	4 Years	4/5	2024
Microservices	4 Years	5/5	2025

## WORK EXPERIENCE

### MSYS TECHNOLOGIES as Senior Software Engineer (1-06-2021 TO PRESENT | REMOTE)

- Developed and maintained backend and frontend solutions for projects, ensuring seamless integration and high-quality performance.
- Managed complex cloud infrastructures, including AWS and Azure, to optimise server performance and ensure scalability.
- Handled API calls and server management tasks to enhance system reliability and efficiency.
- Collaborated with cross-functional teams to deliver innovative solutions on time and within budget.

- Contributed to strategic planning and execution, consistently meeting project goals and exceeding client expectations.
  - Engaged in code reviews and technical discussions to uphold coding standards and foster continuous improvement.
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## **ANDRO APPS TECHNOLOGY as FULL STACK DEVELOPER (17-02-2020 TO 21-05-2021 | MUMBAI)**

- Led full project planning and development for a major project, overseeing the entire software development lifecycle from conception to deployment.
  - Collaborated with cross-functional teams, including designers and product managers, to deliver scalable and efficient web and mobile applications.
  - Developed both front-end and back-end components, ensuring seamless integration and optimal performance.
  - Implemented best practices in coding, testing, and deployment, resulting in improved application stability and reduced development time.
  - Utilized modern frameworks and tools to enhance user experience and backend efficiency, contributing to customer satisfaction.
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## **GENMIS TECHNOLOGY AS FULL STACK DEVELOPER (01-03-2019 to 10-02-2020 | MUMBAI )**

- Developed and maintained scalable web applications using Node.js for the backend and React.js for the front end, delivering high-performance solutions.
- Implemented RESTful APIs and integrated third-party services to enhance application functionality and user experience.
- Collaborated with designers and product managers to translate business requirements into technical specifications and deliver robust features.
- Optimized application performance through code optimization, caching strategies, and efficient data handling techniques.
- Conducted unit testing and debugging to ensure code quality and reduce bugs in production.

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## **PROJECTS**

### **● Project: GyaanPoints – AI-Powered Educational Assistant**

#### **Description:**

Developed and integrated an AI-powered assistant within the GyaanPoints Android app to enable students and aspirants to ask natural language questions about syllabus topics, quizzes, and government schemes. Leveraged both cloud-based (GPT-3.5/4) and locally hosted (via Ollama) **LLMs** to deliver intelligent, contextual, and multilingual responses.

#### **Key Contributions:**

- Designed and implemented **Retrieval-Augmented Generation (RAG)** pipeline using **ChromaDB** for semantic search over educational documents and scheme texts.

- Built a secure **FastAPI backend** to manage LLM prompts, context memory, embedding generation, and user query routing.
  - Integrated **LangChain** to support multi-step reasoning, dynamic tool use, and chain-of-thought prompting.
  - Added **offline capability** by integrating **Ollama** to run local LLMs for low-connectivity users.
  - Supported **multilingual queries** (English/Hindi) using translation APIs with context-aware prompt conditioning.
  - Designed prompt templates tailored to students' grade levels and learning goals to improve answer relevance.
  - Ensured seamless integration with **Firestore Auth**, user preferences, and GP-based content unlocking system.
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## ● **Project: Multi-Cloud Automation Deployment System**

**Role:** Full Stack Developer

**Technologies:** Node.js, React.js, Python, AWS, Azure, VMware

### **Description:**

Contributed to the design and development of a scalable automation platform enabling the deployment and management of virtual machines (VMs) across multiple cloud providers including **AWS**, **Azure**, and **VMware**. Worked as part of a cross-functional team, delivering key components on both frontend and backend.

### **Key Contributions:**

- Developed intuitive and responsive user interfaces using **React.js** to manage and monitor cloud deployments.
  - Built a robust backend system using **Node.js** and **Python** to orchestrate VM provisioning workflows and integrate with various cloud APIs.
  - Implemented automation scripts and workflow engines to streamline infrastructure setup and reduce manual intervention.
  - Enabled consistent, cross-cloud deployment strategies that significantly improved provisioning speed and operational efficiency.
  - Played a vital role in enhancing the system's usability, scalability, and error handling for enterprise-grade reliability.
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## ● **Project: Cryptocurrency Exchange Platform & Wallet Application**

**Role:** Full Stack Developer

**Technologies:** Node.js, React.js, React Native, Rust

### **Description:**

Designed and developed a full-featured cryptocurrency exchange platform along with a cross-platform wallet application for secure digital asset management. Delivered consistent and intuitive user experiences across web and mobile platforms, with an emphasis on performance, scalability, and security.

### Key Contributions:

- Developed responsive, real-time trading interfaces using **React.js** for the web platform and **React Native** for the mobile wallet app.
  - Engineered a high-performance, secure backend using **Node.js** and **Rust** to handle transaction processing, wallet management, and cryptographic operations.
  - Integrated wallet features including balance tracking, transaction history, QR-based transfers, and multi-currency support.
  - Implemented robust security protocols including encryption, 2FA, and secure key storage to safeguard user assets and transactions.
  - Collaborated closely with UI/UX designers to ensure seamless and intuitive navigation across trading, wallet, and account modules.
  - Optimised backend performance for low-latency execution and high throughput under trading load.
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### ● Project: Real-Time Messaging System

**Role:** Full Stack Developer

**Technologies:** React.js, Node.js, WebSocket, Socket.IO, MQTT

#### Description:

Designed and implemented a robust real-time messaging platform enabling seamless one-to-one and group communication. Focused on delivering low-latency performance, high concurrency support, and a responsive user interface across modern web environments.

### Key Contributions:

- Built a dynamic, real-time chat interface using **React.js**, ensuring smooth user interaction and live updates.
  - Developed a scalable backend using **Node.js**, **Socket.IO**, and **MQTT**, facilitating bi-directional messaging with support for large concurrent user loads.
  - Implemented WebSocket-based communication logic for real-time delivery, message acknowledgment, and user presence tracking.
  - Optimized message routing and broker integration for minimal latency and high reliability.
  - Incorporated modular architecture and failover handling to enhance system resilience and maintainability.
  - Applied best practices in real-time data handling, session management, and cross-device synchronization.
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