

Pradeep Yenkuwale

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PROFESSIONAL SUMMARY

Senior/Lead Software Engineer with 8.6 years of experience delivering scalable, cloud-native, and microservice-based solutions. Strong expertise in system design (HLD/LLD), backend architecture, performance optimisation, and engineering leadership. Proven ability to convert business requirements into robust technical strategies, mentor teams, and drive high-impact outcomes across distributed systems. Experienced in building intelligent, AI-powered applications and improving the reliability, observability, and performance of large-scale platforms.

TECHNICAL SKILLS

- **Core Expertise:** Software Architecture, System Design (HLD/LLD), Distributed Systems, Microservices Architecture, Scalable API Design, Event Driven Systems, Technical Strategy and Documentation, System Scalability, Design Patterns, SOLID Principles.
- **Security and Identity:** OAuth 2.0 & OpenID Connect (OIDC), JWT - based Authentication, Access and Refresh Token Flows, Secret Management.
- **Programming & Backend:** Node.js, NestJS, Express.js, Python (FastAPI, Flask), GraphQL.
- **Frontend:** Angular (13+), React.js, JQuery, EmbeddedJS.
- **Databases & Storage:** MySQL, MongoDB, IBM DB2, SQL Server, Data Modelling, Index Optimization, Query Performance tuning.
- **Unit Testing Frameworks:** Jest, Cypress.
- **Caching Layers:** Redis.
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, IAM), IBM Cloud, Kafka, RabbitMQ, MQTT, GitLab CI, CI/CD Pipelines, Containerization & Orchestration (Docker, Kubernetes).
- **AI & Automation:** MCP Servers and Security, MCP Elicitation, MCP Sampling, AI Security, Generative AI Integration, Prompting, OCR & Image Processing (OpenCV, Tesseract).
- **Observability and Reliability:** Logging, Monitoring (Grafana), Metrics.
- **Leadership & Collaboration:** Technical Leadership, Team Mentorship, Code Reviews, Agile Delivery, Cross-Functional Stakeholder Communication.
- **Tools:** Git, JIRA, Confluence, Postman, VS Code, PyCharm, Grafana, and Internal Dashboard Builders.

DOMAIN EXPERTISE

- Travel & Airline Technology (Flight integrations, Fare engines, Recommendation systems).
- Telecom & Global Voice Services Automation
- FoodTech & Delivery Platform Integrations
- Enterprise SaaS & Internal Tooling Automation
- AI-Powered Applications & Conversational Systems

PROFESSIONAL EXPERIENCE

Senior Software Engineer – Full Stack | Almatar Software Solution Pvt Ltd | Mar 2024 - Present

- Led backend architecture for scalable microservices handling airline integrations and fare systems, improving system reliability and reducing production incidents.
- Led service optimisation initiatives, refactoring bottlenecks and improving code quality - reducing API latency by 20% and boosting developer performance metrics by 40%.
- Partnered with the **COE team** to elevate platform observability; built Grafana dashboards, API health monitors, traffic analysis, and automated alerts for proactive incident detection.
- Defined backend architecture strategy and led system design (HLD/LLD) for airline booking and fare platforms, driving scalable feature delivery and cross-team technical alignment.

- Built an AI-powered multilingual chatbot using Python and GPT models, improving response efficiency and increasing user engagement by 5%.
- Developed a **branded fare recommendation engine**, driving a **20% engagement increase** and **40% growth in add-on sales**.
- Developed an **Airline recommendation service**, recommending airlines based on admin/business configurations.
- Integrated domestic and international airline systems via REST/SOAP APIs, reducing booking processing time and increasing partner coverage by 5%.
- Led code review practices and mentored junior engineers, improving code quality and delivery efficiency across backend services.

Senior Software Developer - Full Stack | IBM India Pvt Ltd | June 2022 - Feb 2024

- Designed and developed scalable Node.js microservices to support high-traffic applications, achieving 50% automation of global voice services.
- Led a team of 4 engineers to deliver automation services across 60+ countries, achieving 100% on-time delivery and reducing operational costs by 70%.
- Automated AT&T DCP operations across 60+ countries using microservices - reducing manual effort by 90%, cutting costs by 70%, and improving latency by 20%.
- Led optimisation of containerised workloads to improve deployment stability and ensure compliance with enterprise security standards.

Software Engineer - Full Stack | Irisidea Tech Solutions Pvt Ltd | Feb 2021 - May 2022

- Created technical design documents and workflow diagrams, reducing project onboarding time by 20% and improving cross-team collaboration.
- Integrated DoorDash, Uber Eats, and Postmates APIs into a reusable NPM package—boosting order efficiency by 25% and reducing development time by 30%.
- Decoupled and restructured cron jobs, creating a standalone service that improved task execution efficiency by 30%.
- Developed PoS integration microservices, with 90% unit test coverage using Jest and Cypress, reducing post-deployment defects by 50%.
- Designed reusable Angular components that reduced code duplication by 35% and improved feature delivery speed by 20%.
- Led migration from AngularJS to Angular 8, improving application load time by 10% and reducing technical debt across 40+ modules.

Project Engineer | Solize India Technologies Pvt Ltd | Sep 2017 – Jan 2021

- Gathered and translated client requirements into technical solutions, achieving 98% customer satisfaction and reducing rework by 20%.
- Enhanced tool efficiency by optimising the codebase, reducing execution time by 30%.
- Implemented and deployed Python-based desktop tools with end-to-end testing, reducing manual effort by 50%.
- Designed and integrated RESTful APIs using Node.js, seamlessly linking them with Angular-based UI components.
- Automated database backups with batch and shell scripts (80% reduction in manual work).

Software Developer – Intern | Solize India Technologies Pvt Ltd | Jan 2017 - Aug 2017

- Developed and maintained production-grade applications and databases, ensuring 99.9% uptime and optimised query performance.
- Collaborated with internal stakeholders, gathering requirements and achieving 100% alignment with user expectations.
- Tested and deployed applications to production, maintaining stable performance and minimal downtime.

EDUCATION

- **Master's of Computer Applications (MCA)**
Specialisation: Computer Applications | Visvesvaraya Technological University, Bengaluru, India
- **Bachelor's in Science (B.Sc)**
Specialisation: Computer Science | Gulbarga University, Gulbarga - Bidar, India

SOFT SKILLS

- Fluent communication, Leadership, Analytical Thinking, and Agile Collaboration.
- Critical observations, focus, time management, team management, self and dynamic learning, and problem-solving ability.
- Languages: English, Hindi, Kannada, and Marathi.

CERTIFICATIONS

- Introduction to Prompt Engineering For Generative AI - LinkedIn Learning
Credential URL: <https://www.linkedin.com/..>
- Unboxing AI: Build a Remote MCP Server from Zero to Deployed with OAuth - LinkedIn Learning
Credential URL: <https://www.linkedin.com/..>

AWARDS

- **Client and Partner Success Award (2022)** - IBM India Pvt. Ltd.
Recognised for leading automation of AT&T DCP operations across 60+ countries, reducing manual effort by 90% and operational costs by 70%.
- **Performance Excellence Award (2022)** - IBM India Pvt. Ltd.
Awarded for high-impact contributions to global voice services automation, achieving 50% process automation and 100% on-time delivery.