

Vikas Pawar

Software Development Engineer

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SUMMARY

Software professional with **14+ years of experience** in **cloud-native platforms, microservices, and distributed systems**. Proven expertise in **system architecture, API design, and full-stack development** across **AWS, Azure, Java, Node.js, and Python ecosystems**. Adept at leading teams, driving technical strategy, and delivering **scalable, secure, and high-performance solutions**.

SKILLS

- **Architecture & Design:** Microservices, Event-Driven Design, Domain Driven Design (DDD), SOLID Principles, Scalable Architecture, Design Patterns, REST APIs, GraphQL, WebSockets
- **Programming:** Java, Spring Boot, Python, FastAPI, Django, Node.js, Express, TypeScript, React.js, Redux, PHP, JavaScript
- **Cloud & DevOps:** AWS Cloud (EC2, Lambda, S3, DynamoDB, CloudWatch, API Gateway), Azure Cloud (VMs, DevOps, Functions, Storage, Networking), Kubernetes, Docker, CI/CD Pipelines, Serverless Architecture, Cloudflare
- **Databases:** PostgreSQL, MySQL, NoSQL, MongoDB
- **IoT Protocols:** MQTT, OPC UA, MODBUS, HART-IP
- **Security and Tools:** Threat Modeling, SD Elements, Blackduck, Coverity, Fortify
- **Leadership & Agile:** Scrum Master, Agile (Scrum/Kanban), Test-Driven Development (TDD), Mentorship, Code Reviews, GitHub Copilot, Gen AI, Machine Learning

EDUCATION

- **Master of Science (M.Sc.) in Computer Software** | Pune University | Jun 2009 - May 20119

PROFESSIONAL EXPERIENCE

- **Emerson- Lead Engineer** | May 2023 To Current
- **Entrata India (DB Xento)- Principal Engineer** | Oct 2013 To May 2023
- **Ansh Systems (Eastern Enterprise)- Software Engineer** | Jul 2012 To Oct 2013
- **Veblogy Innovative Tech, Jr. Software Engineer** | May 2011 To Jun 2012

PROJECTS

Power or Battery Module Application

Software Architect, Lead Engineer | Python, FastAPI, Node.js, Express, React.js, PostgreSQL, MongoDB

- Architected and designed a centralized platform for monitoring and configuring power devices in real time.
- Led requirement gathering, estimations, and technical decisions to ensure robust and scalable architecture.
- Conducted code reviews and mentored developers to enforce best practices and clean code.
- Project Impact: Enabled administrators to access operational metrics such as data throughput and latency, enhancing device management efficiency.

Network Management Application (Emerson)

Software Architect, Lead Engineer | Java, Spring Boot, Node.js, Express, React.js, PostgreSQL, MongoDB

- Designed and implemented a platform to configure, monitor, and troubleshoot network gateway devices.
- Defined technical architecture, API contracts, and UI/UX structure for seamless user experience.
- Improved network reliability by integrating real-time monitoring dashboards.

- Project Impact: Empowered administrators with insights into connected devices, improving operational efficiency.

Affordable Baseline Reader- Microservice (Entrata)

Software Architect, Principal Engineer | Node.js, Express, React.js, MongoDB

- Architected microservices to process input files, extract baseline data points, and generate insights.
- Designed REST APIs ensuring modularity, scalability, and seamless integration with other services.
- Conducted technical reviews, estimations, and stakeholder discussions.

Rates Management (Entrata)

Software Architect, Principal Engineer | Java, Spring Boot, Node.js, Express, React.js, AngularJS

- Led architectural design for rental rates management module serving property managers and owners.
- Implemented backend and frontend modules ensuring maintainability and scalability.
- Mentored junior developers on Node.js and design patterns.

Scheduled Charges (Entrata)

Technical Lead & Full Stack Developer | PHP (FuseBox), Smarty, JQuery

- Developed and enhanced modules for rent charge scheduling.
- Ensured adherence to business logic compliance and optimized database queries for performance.

Account Closings (Entrata)

Full Stack Developer | PHP (FuseBox), Smarty, JQuery

Developed and enhanced modules for account closure.

Repayment Agreement (Entrata)

Full Stack Developer | PHP (FuseBox), Smarty, JQuery

Developed and enhanced modules for account closure.

Write-off (Entrata)

Full Stack Developer | PHP (FuseBox), Smarty, JQuery

Developed and enhanced modules for account closure.

BAS Trucks -ERP (Ansh Systems)

Full Stack Developer | PHP (Zend), Smarty, JQuery

Developed modules for global truck dealership ERP managing sales, leasing, financial services, and after-sales.

Cotton Mill - ERP (Veblody)

Full Stack Developer | Core PHP, JQuery

Built ERP modules integrating multiple departments like accounts, raw cotton, sales, costing, and HR for efficient operations.

CERTIFICATIONS

- AWS Technical Essentials (AWS, 2022)
- Software Architecture: Domain-Driven Design and Patterns (LinkedIn Learning, 2022)
- Advanced Node.js Development (Udemy, 2023)
- Microservices Architecture and Design Patterns (LinkedIn Learning, 2024)