BADHUSHA K.

Senior Software Engineer | Lead Full Stack Engineer | AI/ML Engineer
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PROFESSIONAL SUMMARY

Senior Full Stack & AI/ML Engineer with 9+ years of experience designing, building, and delivering enterprise-grade web, mobile, backend, cloud, and AI-enabled systems. Strong hands-on expertise in Go, Node.js, TypeScript, Python, React, React Native, Android, microservices, REST/GraphQL APIs, real-time systems, SQL/NoSQL databases, AWS, Azure, Docker, Kubernetes, and CI/CD. Experienced in backend architecture, system design, distributed systems, product engineering, technical leadership, observability, performance optimization, and production reliability across E-commerce, EdTech, enterprise applications, and data pipeline products. Current AI engineering focus includes LLM applications, Generative AI, agentic systems, MCP/tool integration, local LLM runtimes, AI memory and governance, prompt engineering, and production AI reliability.

CORE COMPETENCIES

- **CORE COMPETENCIES**: Software Architecture & System Design, Full Stack Engineering, Backend & Microservices, Cloud-Native Engineering, AI/LLM Integrations, Distributed & Real-Time Systems, API Design & Integration, Database Architecture & Optimization, CI/CD & DevOps, Technical Leadership & Mentoring, Agile/Scrum Delivery, Production Reliability & Observability
- **Languages**: Go, TypeScript, JavaScript, Python, Java, Kotlin, SQL
- **Backend**: Node.js, Express, FastAPI, REST, GraphQL, WebSockets, Socket.IO, Microservices
- **Frontend**: React, Next.js, Vue.js, Nuxt, Tailwind CSS, Bootstrap, Material UI, HTML5, CSS3
- **Mobile**: React Native, Expo, Android, Kotlin, Java, Flutter, Firebase
- **AI / ML**: OpenAI/LLM APIs, GPT, LangChain, Mistral 7B, Whisper, NLP, Generative AI, OpenCV, ML integrations
- **Databases**: PostgreSQL, MySQL, MongoDB, Redis, SQLite, Firebase, Amazon Redshift
- **Cloud / DevOps**: AWS, Docker, GitHub Actions, Lambda, Step Functions, S3, SQS, SNS, DynamoDB, Elasticsearch, Nginx, Apache
- **Engineering Tools**: GitHub, GitLab, Bitbucket, Jira, Postman, Swagger/OpenAPI, Jest, Mocha, Figma, VS Code
- **Architecture**: Microservices, API-first design, MVC, MVVM, event-driven systems, caching, real-time systems, cloud architecture

PROFESSIONAL EXPERIENCE

Shell Global (via GoStack) **Jun 2025 - Present**
Senior Software Engineer *Bengaluru, India*

- Go, React, Vue, TypeScript, Node.js, PostgreSQL, MySQL, MongoDB, Azure, GitHub Actions, Docker, Kubernetes, Redis, GraphQL, WebSockets
- Build and evolve Go-based backend services and microservices supporting enterprise digital products, with emphasis on scalability, maintainability, security, and production reliability.
- Develop React and Vue interfaces and contribute across backend, frontend, data models, APIs, authentication, logging, and shared platform capabilities.
- Design and maintain services across PostgreSQL, MySQL, and MongoDB, applying sound data modeling and performance-oriented query design.
- Strengthen CI/CD and engineering automation through Azure and GitHub Actions workflows, automated testing, monitoring, logging, and release processes.
- Collaborate with product, QA, architecture, security, and engineering teams; participate in code reviews and mentor engineers on implementation quality and engineering practices.
- Contribute to critical offer and transaction journeys while improving observability, authentication, test automation, and service reliability.

Elance Learning Pvt. Ltd. - EdTech Product Company **Jul 2024 - Jun 2025**
Lead / Senior Software Engineer *Kerala, India*

- Go, Node.js, React, Vue, TypeScript, PostgreSQL, MySQL, MongoDB, Redis, GraphQL, WebSockets, Docker, Kubernetes, Azure, LangChain, Mistral 7B, Whisper
- Spearheaded design and development of scalable features for an EdTech platform using Node.js, Go, React, Vue, and cloud-native services, contributing to a 15% increase in user engagement.
- Engineered highly available backend microservices with 99.9% uptime, supporting thousands of concurrent users across critical learning workflows.
- Integrated Mistral 7B, LangChain, Whisper, and LLM APIs for content summarization, AI mentoring, and Generative AI capabilities.
- Designed data models and backend APIs across PostgreSQL, MySQL, MongoDB, Redis, GraphQL, and WebSockets for scalable product experiences.
- Worked with Docker, Kubernetes, Azure CI/CD, Git, and automated testing to improve release consistency, security, and production quality.
- Led code reviews, mentored engineers, collaborated with cross-functional teams, and drove performance and reliability improvements.

Freshtohome Foods Pvt. Ltd. - E-commerce Product Company **Feb 2022 - Jul 2024**
Senior Software Engineer *Bengaluru, India*

- Node.js, React, React Native, Ionic, MongoDB, MySQL, Redis, Kafka, AWS Redshift, Lambda, DynamoDB, Elasticsearch, S3, SNS, SQS, Firebase
- Developed and maintained customer-facing web and mobile applications across MERN/MEVN and React Native/Ionic stacks for an e-commerce platform serving 100,000+ users.
- Designed and implemented Node.js microservices and data pipelines integrating Kafka and AWS Redshift, improving data processing efficiency by 60% for analytics workflows.
- Optimized MongoDB and MySQL schemas for an e-commerce catalog of 5,000+ SKUs, improving product-listing query performance by 25%.
- Optimized analytics and reporting queries, reducing report generation time by 45% and improving downstream data availability.
- Delivered critical product features that contributed to a 10% increase in active users while maintaining production reliability and scalable API architecture.
- Worked with AWS Lambda, DynamoDB, Elasticsearch, Typesense, SNS, SQS, S3, Redis, Firebase, Kafka, and CI/CD tooling.

Codelattice Digital Solutions Pvt. Ltd. **Dec 2019 - Feb 2022**
Software Engineer *Kerala, India*

- Node.js, React, React Native, Android, Java, Kotlin, MongoDB, MySQL, Redis, AWS, GraphQL, Socket.IO, Bitbucket, Jira
- Built scalable web and mobile applications using Node.js, React, React Native, Android, MEVN/MERN, and cloud services across multiple client and enterprise projects.
- Implemented microservices handling 10,000+ daily transactions and developed RESTful and GraphQL APIs for business and mobile applications.
- Designed flexible database schemas and optimized SQL/NoSQL queries for performance, scalability, and evolving product requirements.
- Led code reviews and established engineering practices for junior developers; supported QA, release, and production troubleshooting activities.
- Collaborated with multiple product owners and cross-functional teams to deliver integrated solutions across varied technology stacks.

Zemose Pvt. Ltd. **Jan 2019 - Dec 2019**
Full Stack Developer *Kerala, India*

- JavaScript, Node.js, React, Angular/MEAN, MongoDB, MySQL, AWS, Git, Jira
- Developed responsive web applications and backend services using MEAN/MERN technologies, JavaScript, React, Node.js, and SQL/NoSQL databases.
- Collaborated with technical leads and cross-functional teams to translate business requirements into maintainable software solutions.
- Designed and optimized application data models and APIs while participating in Agile delivery, code reviews, testing, and release activities.

VTOQA Inc. **Mar 2018 - Jan 2019**
Mobile App Developer *Kerala, India*

- Kotlin, Java, Android SDK, Android APIs, React Native, Firebase, Firestore, SQLite, Gradle, Git
- Developed native Android applications using Java/Kotlin and hybrid applications using React Native.
- Implemented Firebase Push Notifications, real-time database synchronization, Firestore services, and Android platform integrations.
- Designed responsive mobile interfaces following Material Design principles and optimized application performance, reducing load times by 35%.
- Diagnosed and resolved application issues, contributing to a 75% reduction in the bug backlog.
- Coordinated with development and QA teams through Scrum ceremonies, code reviews, status reporting, and delivery planning.

Tata Consultancy Services (TCS) **Mar 2017 - Jul 2017**
Android Developer Intern *Kochi, Kerala*

- Java, Android, Android SDK, XML, SQLite, Gradle
- Developed and supported Android application components under established engineering standards and guidance from technical leads.
- Implemented Android UI and platform integrations while participating in testing, issue resolution, daily stand-ups, and project reporting.
- Completed the assigned internship project ahead of schedule with all stated requirements delivered.

SELECTED PROJECTS

Serverless LLM API GitHub
- Node.js/AWS Lambda sample project for deploying LLM-powered APIs with Docker, model packaging, inference endpoints, and production considerations such as cold-start mitigation, monitoring, and API security.

Transactional Outbox
- Go + PostgreSQL
- Production-oriented reference implementation exploring transactional outbox patterns for reliable event publication from PostgreSQL-backed Go services, with focus on consistency and distributed-system reliability.

HumanWrite-X MCP Server GitHub
- Public Python/MCP project for an adaptive LLM-based content transformation engine combining stylometric analysis, syntactic variation, and model-assisted refinement. Built around LLM evaluation, agentic workflows, and LLMOps concepts.

PUBLICATIONS

- From AI Prototype to Production: Building Reliable Agentic Systems.*Medium* **2026**
- Transactional Outbox Pattern in Go and PostgreSQL: Solving the Dual-Write Problem.*Medium* **2026**
- AI Interviews, Candidate Privacy and Transparency: My Experience with Micro1 and the Questions.- *Medium* **2026**
- Why Local AI Agents Are Powerful – and How to Secure Them Before You.*Medium* **2025**
- What I Discovered About Meta AI Inside WhatsApp: A Privacy and Prompt Engineering Test.*Medium*
- Building the Unthinkable: Full-Stack Architectures for Next-Gen AI Commerce.*Medium*
- Building Scalable LLM-Powered APIs with Node.js and AWS Lambda: A Serverless Guide.*Medium*

EDUCATION

upGrad **Mar 2025 - Apr 2026**
Diploma, Machine Learning & AI with MLOps, Generative AI & Agentic AI

Calicut University **Mar 2018**
Bachelor of Science, Computer Science *Kerala, India*
- **GPA:** CGPA: 7.8/10

CERTIFICATIONS

- Diploma in Machine Learning & AI with MLOps, Generative AI & Agentic AI: upGrad **Mar 2025**
- NASSCOM Software Developer Certification **2017**
- NASSCOM Life Skills Certification **2017**