Bhuvnesh Kumar

Lead Software Engineer | Full Stack Engineer | Generative AI | Cloud

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Professional Summary

Lead Software Engineer with **11+ years** of experience in Full Stack, Serverless, and Generative AI product development. I've architected and delivered large-scale, high-availability platforms used by millions of users across schools and districts, and built secure, scalable systems that contributed over **$5M** in product impact. In recent years, I've driven several practical Generative AI use cases from idea to production.

Core Skills

AI & LLMs: OpenAI, GPT/Claude Models, LangChain, LlamaIndex, RAG, Vector DBs, Agentic AI, fine-tuning, MCP Server, Prompt Engineering

Programming: TypeScript, JavaScript, Python

Backend/Frontend: Node.js, FastAPI, React, Angular, Redux, REST/GraphQL

Cloud & DevOps: AWS (Lambda, API Gateway, SQS, ECS, EventBridge, CDK, Cognito, Step Functions, S3, SNS, CloudWatch, KMS, Bedrock), Docker, Kubernetes, CI/CD, Kafka

Databases: DynamoDB, Redis, MongoDB, MySQL

Architecture: Serverless, Event-Driven, Distributed Systems Design, Microservices, Observability, Security and Authentication

Leadership: Mentoring, Code Governance, Cross-team Collaboration, Project Delivery

Work Experience

Lead Software Engineer 2 | PowerSchool | Oct 2021 - Present | Bengaluru

- Led the architecture and technical direction of the PowerSchool CCLR eDocs platform, guiding a 15-member team and building a high-scale AWS Serverless backend that supported millions of submissions during peak season, directly contributing to **$5M+ in product revenue**.
- Integrated the Scribbles partnership into eDocs, which increased document submissions by roughly **20% (~300K docs)** and added **$1.5M+** in revenue impact.
- Migrated legacy APIs to AWS Serverless using CDK, reducing API latency by **30%**, cutting operational costs by **20%,** and improving multi-region reliability.
- Designed and delivered the Bulk Submission Manager, which allowed counselors to submit multiple student documents in a single action. This feature became a key differentiator and helped retain large enterprise customers linked to **several million** in revenue.
- Built an LLM-powered **PR Risk Analyzer** for early detection of risky pull requests and an **AI-assisted recommendation letter generator** to help counselors draft personalized letters.

Module Lead | Telus International | Sep 2019 - Oct 2021 | Noida

- Successfully led the consolidation of multiple outdated wireless and wireline support applications into one robust **unified web platform**, standardizing the agent experience.
- Improved customer support workflows by **simplifying the underlying architecture** and implementing a Microservices pattern. This directly boosted agent efficiency, resulting in a **15% reduction in time spent handling customer issues.**
- Mentored and guided team members, establishing coding standards and maintaining system quality through regular code reviews.

Senior Software Engineer | AgreeYa Solutions | Jun 2018 - Sep 2019 | Noida

- Designed and implemented a multi-city mobility app.

Software Engineer | SourceFuse | Jul 2016 - Jun 2018 | Noida

- Built a cloud-based contact center leveraging AWS serverless tools (Connect, Lex, Polly, Lambda, API Gateway) and integrated secure authentication using AWS Cognito with OAuth2/JWT, ensuring sensitive data remained protected.

Software Engineer | Paxcel Technologies | Oct 2015 - Jul 2016 | Chandigarh

- Migrated a Java/jQuery-based project to React and Node.js, improving maintainability and developer efficiency.

JuniorAssociate – IT | Daffodil Software | Jun 2014 – Oct 2015 | Gurgaon

- Began career as a Full Stack JavaScript Developer, contributing to frontend and backend modules.

ShopAssist AI (Self Project, 2024)

- Developed an AI chatbot that recommends laptops based on user preferences using OpenAI GPT API.
- Built a retrieval-augmented generation pipeline using LangChain and ChromaDB for context-aware responses.
- Deployed backend with FastAPI and hosted on AWS Lambda for scalable, low-cost operation.

Education

- **Executive PG Programme in AI, ML, and Generative AI, IIIT Bangalore** (2023-2024).
- Master of Computer Applications, Banaras Hindu University (2013).

Achievements

- **Employee of the Quarter (Tech)** - PowerSchool.
- **PowerTeam Award** - Scribbles Integration.