

SUMMARY

Software Developer with 3+ years of experience and a Master's in IT. Has built and maintained backend services across 10+ production applications using Node.js, Spring Boot, REST APIs, microservices, and SQL. Reduced p95 API latency by 45% and cut production incidents by 40%. Also builds LLM and RAG-based applications, backed by Databricks Generative AI certification.

SKILLS

- **AI / ML Engineering:** OpenAI, Claude, Gemini, RAG Pipelines, Agentic AI, LangChain/LangGraph, Tool/Function Calling, Prompt Engineering, Embedding Models & Chunking Strategies, Vector Search
- **Programming:** Java, Python, C++, TypeScript, JavaScript
- **Backend & APIs:** Node.js, Spring Boot, FastAPI, REST APIs, Microservices, API Development
- **Databases:** MySQL, PostgreSQL, SQL, NoSQL, Query Optimization, Indexing
- **Cloud & DevOps:** AWS EC2, AWS Lambda, S3, IAM, CloudWatch, Docker, Git, Linux, CI/CD
- **Testing & Debugging:** Unit Testing, Integration Testing, Jest, API Testing, Production Debugging, Structured Logging
- **Frontend & Tools:** React.js, Angular, Next.js, HTML, CSS, Chrome Extensions, WebSockets, GitHub, Computer Vision

ACADEMIC ACTIVITIES & CERTIFICATIONS

- Databricks Certified Generative AI Engineer Associate ([Certificate](#)) & Udemy Generative AI Engineer([Certificate](#))
- AWS Academy Graduate - Machine Learning for Natural Language Processing ([Batch](#)) & AWS Cloud Architecting([Batch](#))
- Perplexity Campus Partner | Arizona State University | 2025

PROFESSIONAL EXPERIENCE

Application Developer, Resilient Visions Collaboratory Lab, ASU| Tempe, Az

Feb 2026 – Present

- Built a Python/FastAPI AI chatbot backend with REST API endpoints for user input validation, structured prompt formatting, LLM API integration, and guided response generation.
- Integrated wearable ring, mood-tracking, and research-notes data into a RAG-style workflow, converting activity/sleep, mood, and HR/HRV-style signals into JSON context for personalized AI responses.

Software Developer, FOSSFREAKS Private Limited | Chennai, India

Nov 2022 – Dec 2023

- Built and maintained full stack features for **10+ client applications using Node.js microservices, REST APIs, SQL** databases, and React. Owned the backend API development, frontend integration, testing, and production support.
- Built secure backend workflows for a medical inventory **ERP style dashboard**, including **JWT based authentication, OAuth** login, protected API routes, role based access control, and middleware level authorization.
- Built reusable API modules, including user management, inventory and orders, supplier and purchase workflows, dashboard reporting, file import and export, and notification triggers, so the same code supported multiple project areas.
- **Reduced p95 API latency** by 45% by profiling slow endpoints, reviewing SQL execution plans, finding queries that were doing repeated full table scans, adding composite indexes, and removing redundant database calls on high traffic routes.
- **Increased backend throughput by 38%** by rewriting blocking service logic as asynchronous Node.js workflows, cutting sequential database operations, improving Promise based execution, and tightening API payloads.
- Cut recurring production incidents by 40% by debugging Linux environments, tracing failed requests, and fixing validation and authentication edge cases. Added Jest unit tests, REST API integration tests, and CI/CD checks before deployment.

Research Intern, EinNel Technologies | Chennai, India

Feb 2022 – Oct 2022

- Developed Spring Boot microservices and REST APIs within a distributed backend architecture, implementing controller-service-repository layers, request validation, exception handling, and service-level business logic for enterprise data.
- Built backend **payment and transaction API workflows** for payment initiation, transaction verification, status updates, retry handling, and PostgreSQL-backed transaction persistence across pending, successful, failed, and retried payment states.
- Improved request throughput by **30%** and reduced average response latency by **28%** by optimizing **PostgreSQL queries**, adding indexes and validating endpoints through **unit testing, integration testing, Git workflows, and CI/CD checks**.

Software Developer | Freelance |

Dec 2021 - Nov 2022

- Built a kids' coding game platform in React.js, TypeScript, SQL/NoSQL and a job posting website for hiring workflows.

PROJECTS

TenK Analyst — Agentic RAG assistant for SEC filings.

[Live](#) | [GitHub](#)

- Built an agentic RAG system with LangGraph where the agent plans sub questions and retrieves from SEC filings, using Llama 3.3 70B via Groq to reason and grade results, looping back to search when evidence is weak.
- Implemented semantic vector search by chunking filings and embedding them with sentence transformers into a Chroma vector store, with metadata filtering by company so the agent retrieves the right filing.

ProofMap – Resume-to-GitHub Skill Validation Platform

[Live](#) | [Github](#)

- Built and deployed a production-ready full-stack platform that validates resume skills against public GitHub repositories, processing 10K+ repository data points via optimized REST integrations.
- Integrated OpenAI APIs to build GenAI workflows that generate contextual skill gap suggestions and structured improvement plans, implementing prompt engineering, response validation, and fallback handling to ensure reliable AI recommendations

AI-Powered API Performance Bottleneck Analyzer

[GitHub](#)

- Developed a Dockerized FastAPI microservice that analyzes production logs to detect p95 latency spikes, N+1 query patterns, error bursts, and recurring backend bottlenecks, reducing manual performance investigation effort by 80%.
- Built asynchronous log ingestion and analysis workflows with structured error handling, retry-safe processing, and API-based outputs to support scalable backend diagnostics under large log volumes.

EDUCATION

Arizona State University |Ira A. Fulton Schools of Engineering | Tempe, USA

Jan 2024 – Dec 2025

Master of Science in Information Technology in Project Management

GPA: 3.79

Anna University | Chennai, India

Aug 2018 – Apr 2022

Bachelor of Computer Science and Engineering

GPA: 3.71