

Abhishek Gurudwar

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Education

Saint Louis University

Master of Science in Computer Science

Jan 2023 – Dec 2024

St. Louis, MO, USA

Summary

Software Engineer driving business and product impact through intelligent, production-grade software. Proficient in AI applications, agentic workflows, and RAG pipelines, with full-stack expertise in Python backend, React/Next.js frontend, and cloud-native systems. Skilled in building scalable microservices and CI/CD pipelines across leading cloud platforms. Delivered nearly \$1M in client value by engineering end-to-end platforms for AI automation, IoT control, and legacy system modernization, shipped to real users in production.

Experience

AI Software Engineer(*Metis Analytics*)

Jan 2025 – Present

- Architected AI-powered RFQ Matching Platform using **FastAPI**, **Sentence Transformers**, achieving 98% accuracy across 2000+ PDFs and automating **85%** of manual processes, unlocking ~\$500K/year in deal closures
- Deployed LAN-hosted IoT control system using **Flask**, **React**, and **Socket.IO**, contributing to **30%** increase in customer acquisition
- Launched Agentic **RAG** platform with **GPT-4**, **Claude**, and **Groq** to automate complex document summarization for clients, reducing manual review time by **40%** and saving ~\$50K/year in operational costs
- Engineered **full-stack** AI solutions with **Next.js**, **React**, **Supabase**, **Firebase**, **Stripe**, and **AWS**, mentored juniors and led code reviews to improve product quality.
- Delivered multimodal Slack agents using **Groq** APIs and **LangChain**, reducing operational load by **50%**

Lead Software Engineer(*Isolara*)

Aug 2024 – Dec 2024

- Led 4-person team using **Agile/TDD** to deliver production-ready e-commerce MVP in 12 weeks with **0%** sprint delays
- Built full-stack platform with **Next.js**, **PostgreSQL**, **Stripe**, achieving 85% net promoter score
- Integrated **CI/CD** pipelines with 90%+ Jest test coverage across all application layers

Software Engineer (*Accenture*)

Jun 2020 – Mar 2022

- Revamped legacy **.NET** applications to **Java Spring Boot** and **Node.js microservices** for Fortune 500 Company, enabling biweekly releases and driving ~\$1M annual operational efficiency
- Implemented **Okta** SSO/MFA across five critical applications, achieving InfoSec compliance and reducing audit overhead by ~\$150K
- Migrated **SQL** Server to **AWS RDS**, achieving **60%** faster query execution and saving ~\$100K/year
- Deployed **Jenkins** CI/CD pipelines, accelerating deployment velocity by 6x, from 3+ hours to 30 minutes

Software Engineer Intern (*ProfEdge Solutions Pvt. Ltd.*)

Jan 2020 – May 2020

- Developed **RESTful APIs** using **Java**, **Spring Boot**, **MongoDB** for legal CMS, reducing documentation costs by 60%
- Integrated backend services with **Angular** 8 frontend, improving client delivery speed by **35%**

Projects

AI Food Recognition & Recipe Generator

Aug 2024 – Dec 2024

- Trained **ResNet-50** model on **Food-101** dataset with **73%** accuracy, integrated with **Gemini** API for recipe generation

Global Inflation Predictor

Aug 2023 – Dec 2023

- Built ML classifiers (**LogReg**, **KNN**) to predict inflation from macroeconomic data with interactive visualizations

Skills

AI/ML: GPT-4, Claude, RAG, LangChain, Agentic AI, HuggingFace, Sentence Transformers, PyTorch, TensorFlow, Scikit-learn

Backend: Python (FastAPI, Flask), Node.js, Java (Spring Boot), REST APIs, Microservices

Frontend: Next.js, React.js, TypeScript, JavaScript, TailwindCSS, State Management (Redux, Zustand)

Cloud/DevOps: AWS (EC2, S3, RDS, Lambda, EKS), GCP, Docker, Jenkins, GitHub Actions, CI/CD

Databases: PostgreSQL, MongoDB, Supabase, Vector Databases

Practices: Agile, TDD, Pair Programming

Certifications

Career Essentials in Business Analysis – Microsoft & LinkedIn (2025) - Build Your Generative AI Skills with Microsoft – Microsoft & LinkedIn (2025) - Microservices Foundations Professional Certificate – Kong & LinkedIn (2025)