

# Abhishek Unnithan

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## EDUCATION

### Northeastern University

Boston, MA

*Master of Science in Software Engineering Systems*

*Sep 2023 – Dec 2025*

- **Relevant Coursework:** Algorithms, Networking & Cloud Computing, Design Patterns, Object Oriented Design, Database Management Systems, Data Structures

## EXPERIENCE

### Development Contributor

Sep 2024 – Present

*Quantedge.ai*

*Remote*

- Developed a Proof of Concept (POC) to transition an existing web app into a hybrid model.
- Served the frontend build from the server for fully hosted use, while utilizing pyWebView for the binary version.
- Developed a RAG system with Langchain and GPT-4 to provide context-aware personal financial responses.

### Full Stack Developer

Feb 2023 – Aug 2023

*Wipro*

*Kochi, IN*

- Collaborated with FedEx on their shipment tracking application for agents.
- Implemented a document delivery feature in React and Redux, enabling agents to email documents to clients.
- Created a tracking page for 5-9 integration with 10+ custom components, reducing issue resolution time by 38%.
- Wrote wrappers for API endpoints in Typescript, improving code reusability and error handling
- Collaborated with UI/UX designers, BAs, and developers on design and implementation, focusing on scalability.

### Software Engineer

July 2021 – Feb 2023

*Wipro*

*Kochi, IN*

- Worked with Farmers Insurance for agent-focused policy management and alert system in Salesforce.
- Designed and implemented a chained Queueable job that moved soft-deleted inactive accounts to Big Objects, reducing storage usage by 43%
- Created a custom multi-table HTML view for managing alerts and notes, boosting task processing speed by 21%.
- Created a Batchable job to merge duplicate accounts into master accounts and optimize sharing logic for agents.
- Integrated Apex tests and SonarQube with GitHub Actions, reducing deployment issues by 33% through continuous integration and code quality maintenance.

## PROJECTS

### VisualObjects | Python, Flask, React, SQLite, Docker, Heroku

August 2024 – Present

- Developed a React UI with TypeScript and React-Konva for object detection and labeling, allowing users to draw and label undetected objects in uploaded images.
- Implemented a Flask backend using YOLOv8 and computer vision for enhanced object detection and labeling.
- Built a CI/CD pipeline for a Python backend server with Docker, using Nginx as a reverse proxy to serve static files, and deployed on Heroku.
- Integrated a feedback loop for continuous AI training using labeled data, targeting an inventory tool evolution.

### Native Cloud Application | Node.js, Google Cloud, Terraform, GitHub Actions

Jan 2024 – April 2024

- Developed a secure, scalable RESTful API with Node.js and Sequelize, implementing multiple endpoints, and tested with Jest and Supertest.
- Built and managed infrastructure using Terraform, including VPCs, Cloud SQL, load balancers, and managed instance groups, ensuring security with customer-managed encryption keys
- Integrated CI/CD processes, utilizing Google Pub/Sub for event-driven architecture and automated rolling updates for application deployment.

## TECHNICAL SKILLS

**Languages:** Java, TypeScript, Python, JavaScript, SQL (PostgreSQL, SQLite, MySQL)

**Cloud:** Google Cloud, Heroku, Docker, Packer, Terraform, Serverless, Salesforce

**Frameworks:** React, Node.js, Flask, Tailwind, Express

**Developer Tools:** Git, Linux, Workbench, VS Code, IntelliJ, Google Cloud Console, GitHub Actions

**Testing:** Jest, SuperTest, Apex Testing