

# Abhinav G

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## SUMMARY

Software Engineer with Master's in Computer Science and 3 years of experience building scalable, secure applications. Skilled at bridging backend services (.NET, Python, Node.js) with modern frontends (React, Angular) to deliver seamless digital experiences. Experienced in cloud deployments, Agile teamwork, mentoring, with proven strengths in testing and debugging, alongside integrating AI/ML technologies.

## SKILLS

- Languages:** C#, Python, JavaScript, TypeScript, SQL, C++, Java
- Backend:** .NET Core, ASP.NET, MVC, Node.js, GraphQL, Flask, Django, Microservices, System Design
- Frontend:** React.js, Angular, Next.js, HTML5, CSS3, Tailwind CSS, Framer Motion, Redux, Webpack
- Databases:** SQL Server, NoSQL (CosmosDB, MongoDB, Redis), PostgreSQL, Entity Framework
- Cloud/DevOps:** Azure (Functions, Blob, DevOps), AWS (EC2, S3, Lambda), GCP, CI/CD pipelines, Kubernetes, Docker
- Testing/Security:** PyTest, Postman, Swagger/OpenAPI, NUnit, TDD, JWT, OAuth2, RBAC
- Tools:** Git, GitHub, VS Code, Vite, Vercel, Linux, Agile/Scrum, JIRA, Figma, Monitoring (Grafana, Prometheus), SDLC
- AI/ML:** TensorFlow, pandas, PyTorch, NumPy, NLP, LLM, RAG, TF-IDF, scikit-learn, Logistic Regression
- Soft Skills:** Problem Solving, Adaptability, Team Collaboration, Mentorship, Time Management, Communication

## EXPERIENCE

### IT Pulse

San Francisco, CA

Software Engineer

August 2024 - December 2024

- Designed Flask **REST APIs** for fraud email detection, preprocessing datasets with pandas, NumPy, and TF-IDF for model training.
- Refactored back-end services using **Python**, supporting 40% increase in user traffic, system reliability and cutting downtime by 30%.
- Architected a dynamic **React-based dashboard** that visualized flagged email data and usage analytics, increasing user engagement by 40% and enabling real-time monitoring for over **10,000 users**.
- Engineered scalable **full-stack** applications, streamlining data processing workflows, minimizing system latency by 40% and supporting seamless integration of over 50 complex data pipelines.
- Trained ML classification models (Logistic Regression, Naive Bayes) with scikit-learn, implementing services for fraud analysis and exposing confidence scores via Flask APIs.
- Containerized applications with Docker, automated deployments via **CI/CD pipelines** (GitHub Actions), and deployed to **AWS EC2**.
- Implemented and tested endpoints with **Postman**, documented workflows, collaborated in **Agile** ceremonies and delivered sprint goals.

### Chubb Business Services

Hyderabad, India

Software Engineer

September 2020 - August 2023

- Developed and enhanced high-performance **RESTful APIs** in **C#/.NET, Python, and Node.js** within a microservices architecture, improving scalability and reducing API response times by 30%.
- Engineered **GraphQL APIs** to optimize data fetching and improve frontend integration for global clients including Amazon and Marsh.
- Built dashboards using **React, TypeScript** and **JavaScript** for tracking policy status, reducing underwriting decision time by 25%.
- Improved backend with async/await, multithreading and **Redis caching**, enhancing scalability and supporting 50% more transactions.
- Optimized **SQL/NoSQL** queries (PostgreSQL, Cosmos DB, Redis, Entity Framework, LINQ) boosting query performance by 40%.
- Deployed cloud-native solutions using **Azure** Functions, Blob Storage, CDN, and Kubernetes, minimizing content delivery latency by 15% and infrastructure cost by 25%.
- Implemented enterprise-grade security with **JWT/OAuth2** authentication, **SSO, RBAC** authorization, and **E2E encryption**, ensuring 100% compliance with data protection standards.
- Achieved 90% API test coverage via **unit/integration tests** (Swagger, Postman) using **Test-Driven Development (TDD)**.
- Collaborated with cross-functional teams in **Agile** sprints, contributing to code reviews, **debugging**, documentation and **mentoring** while delivering enterprise solutions integrated into partner **e-commerce** platforms.

## PROJECTS

### OllivveCart – Modern Online Retail Platform (React, Typescript, Vite, Supabase, Tailwind) - [Github](#)

- Designed a mobile-first online grocery platform with reusable components, real-time cart updates, secure authentication, filtering/sorting, and PostgreSQL-backed inventory management with seamless multi-device shopping experiences.

### Chatbot - DMV (React 18, Typescript, Vite, shaden-ui, Firecrawl, Lucide Icons) - [Github](#)

- Built an intelligent chatbot providing California DMV information through NLP, intent classification, document processing, web scraping, confidence scoring, and an interactive user interface with clickable links reducing the average user search time by 40%.

### E-Commerce website (C#, ASP.NET, Angular, SQL) - [Github](#)

- Architected a full-stack e-commerce platform featuring real-time inventory tracking, dynamic checkout logic, CRUD-based product management, responsive Angular UI, and optimized C#/.NET APIs for scalable, seamless shopping experiences.

### Digit Recognizer - AI/ML Classification (Python, TensorFlow)

- Developed and deployed digit recognition system with real-time prediction, leveraging neural networks, data augmentation, and a custom UI to demonstrate end-to-end machine learning integration and user interaction, achieving 96% accuracy on the MNIST dataset.

## EDUCATION

### California State University - East Bay

Hayward, CA

Master of Science in Computer Science

August 2023 – May 2025

- Relevant Coursework: Database Systems, Data Structures and Algorithms, Operating Systems Design, Machine Learning.