Abhishek Singhvi

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Professional Summary

Backend & AI engineer experienced in building scalable, production-grade applications with Go, Python, microservices architecture, Docker, Kubernetes, and AWS. Delivered AI-powered tools integrating OpenAI, Google Gemini, and Groq Llama models — improving query performance, remediation speed, and system scalability. Strong in cybersecurity practices, secure API design. Ready to deliver clean code, fast execution, and measurable impact on high-growth teams.

Skills

Languages: Go, C/C++, Python
Technologies & Tools: Gin, Echo, FastAPI, Django, Express.js, Node.js, PyTorch, MongoDB, PostgreSQL, Redis, SQL, Docker, Kubernetes, AWS, REST APIs

Education

Vellore Institute of Technology, Bhopal **Oct 2022 – Oct 2026**
Bachelor of Technology *Cumulative GPA: 8.58/10*
Computer Science and Engineering, Specialization in Cybersecurity

Internship

Software Engineering Intern Oct 2025 – Jan 2026
Agni Technologies *Chennai, India*

- Developed proof-of-concept for AI-powered legacy code modernization using Roslyn for VB.NET code analysis and OpenAI LLM to generate requirements, test cases within a pipeline, reducing manual effort by 40%.
- Analyzed legacy VB.NET codebases to document functions, create test matrices, and implement unit tests for UI-backend logic, including user registration flows in microservices architecture, covering 50+ test cases.
- Designed and implemented Java-based microservices for core business functions (e.g., order validation), exposing secure REST APIs.

Projects

Crab-AI: AI-Powered Database Query Tool | *Backend (Go), Generative AI* [Link] Jan 2026

- Developed backend in Go using Gin framework for natural language to SQL query generation, supporting PostgreSQL, MongoDB, and Redis databases.
- Integrated OpenAI and Google Gemini models for query optimization, improving translation accuracy by 25% and reducing execution time by 30% across 150 test prompts.
- Engineered React frontend with real-time chat interface and transaction management; containerized application with Docker to support 100 concurrent sessions with 98% uptime.

RectAIfy: AI-Powered Startup Idea Analysis Tool | *Full Stack, Backend (Go), Generative AI* [Link] Sep 2025

- Engineered Go-based backend with REST API for startup idea evaluation, leveraging OpenAI for comprehensive market and risk analysis.
- Implemented PostgreSQL database with full-text search and caching mechanisms, enabling efficient analysis of 100 ideas daily with 20% faster processing.
- Generated outputs in JSON, Markdown, and HTML formats; containerized solution with Docker to handle 200 requests per minute.

AI-Vulnerability Patch Management System (VPM) | *Full Stack, Cybersecurity, Generative AI* [Link] Jul 2025

- Created full-stack platform using FastAPI (Python) backend and React frontend to automate vulnerability detection from Nmap scans and prioritize patches with AI.
- Integrated Groq Llama-3 model for AI chatbot that produced patch recommendations with 80% accuracy, reducing remediation time by 40% in testing on 100 scans.
- Implemented JWT authentication and Docker-based deployment, enabling processing of 200 scans per hour with 98% uptime.

Tasker | *Full Stack* [Link] Apr 2025

- Architected scalable task management system in Go with Echo framework and PostgreSQL, integrated AWS S3 for file uploads related to tasks; integrated New Relic monitoring and production-grade security measures.
- Optimized performance using Redis caching, reducing query latency by 50% and supporting 500 tasks per minute; secured system with Clerk authentication.
- Orchestrated deployment with Docker and Kubernetes, improving deployment efficiency by 3x

Certifications

DevOps – IBM Web-Based Training Jun 2025
Cybersecurity Analyst – IBM Web-Based Training Jun 2025