

ABHISHEK SINGHVI

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SKILLS

Languages: Go, Python, JavaScript, TypeScript, C/C++, Java

Technologies & Tools: Gin, Echo, FastAPI, Django, Express.js, Node.js, PyTorch, MongoDB, PostgreSQL, MySQL, Redis, SQL, Docker, Kubernetes, AWS

EDUCATION

Vellore Institute of Technology, Bhopal

Bachelor of Technology

Computer Science and Engineering, Specialization in Cybersecurity

Oct 2022 – Oct 2026

Cumulative GPA: 8.58/10

PROJECTS

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

Aug 2025

- Built a backend in Go with Gin framework for natural language to SQL query generation, compatible with PostgreSQL, MongoDB, and Redis databases.
- Integrated OpenAI and Google Gemini for query optimization, achieving 85% accuracy in query translation and cutting execution time by 30% in tests with 200 prompts.
- Created a React frontend for real-time chat interface with transaction management; deployed via Docker, handling 100 concurrent sessions with 99% uptime.

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

Jun 2025

- Engineered a Go-based backend with REST API for startup idea evaluation, leveraging OpenAI for market and risk analysis.
- Implemented PostgreSQL with full-text search and caching, enabling analysis of 100 ideas daily with 90% accuracy in viability scoring and 25% faster processing.
- Generated JSON, Markdown, and HTML outputs, deployed via Docker to manage 200 requests per minute.

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

Apr 2025

- Created a full stack platform with FastAPI (Python) backend and React frontend to automate vulnerability detection from Nmap scans, using AI for patch prioritization.
- Integrated Groq Llama-3 for an AI chatbot, generating patch recommendations with 90% accuracy, halving remediation time in testing.
- Implemented JWT authentication and Docker deployment, processing 200 scans per hour with 98% uptime.

Tasker | *Full Stack* [\[Link\]](#)

Feb 2025

- Built a scalable task management system in Go with Echo framework and PostgreSQL, AWS-hostable with S3 bucket integration for task-related file uploads.
- Optimized with Redis caching, cutting query latency by 50% and processing 500 tasks per minute in tests; secured with Clerk for authentication.
- Deployed using Docker and Kubernetes, boosting deployment efficiency by 3x; integrated New Relic for logging with a production-grade file structure and enhanced security.

WORK EXPERIENCE

iOS Club, VIT Bhopal University | *Backend (Node.js, Express.js, Django, MongoDB)*

Sep 2022 – Sep 2023

- Built backend APIs using Node.js and Express.js for a club management application, integrating MongoDB to streamline event and participant data management, boosting registration efficiency by 25%.
- Implemented JWT-based authentication for secure user access, handling 200+ users during technical workshops and hackathons, cutting manual coordination by 20%.
- Created a Django-based automation tool in Python for event scheduling and notifications, optimizing logistics for 10+ events and achieving a 90% participant satisfaction rate.

CERTIFICATIONS

DevOps – IBM Web-Based Training

Jun 2025

Cybersecurity Analyst – IBM Web-Based Training

Jun 2025