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

PROJECTS

Crab-AI: AI-Powered Database Query Tool | *Backend (Go), Generative AI* [Link]   Aug 2025
- Developed a backend in Go with Gin framework for natural language to SQL query generation, supporting PostgreSQL, MongoDB, and Redis databases.
- Integrated OpenAI and Google Gemini for query optimization, achieving 85% accuracy in query translation and reducing execution time by 30% in tests with 200 prompts.
- Built a React frontend for real-time chat interface with transaction management; deployed with Docker, supporting 100 concurrent sessions with 99% uptime.

RectAIfy: AI-Powered Startup Idea Analysis Tool | *Fullstack, Backend (Go), Generative AI* [Link]   Jun 2025
- Engineered a Go-based backend with REST API for startup idea evaluation, using 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.
- Developed JSON, Markdown, and HTML outputs, deploying via Docker to handle 200 requests per minute.

AI-Vulnerability Patch Management System (VPM) | *Fullstack, Cybersecurity, Generative AI* [Link]   Apr 2025
- Developed a fullstack 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, reducing remediation time by 50% in testing.
- Implemented JWT authentication and Docker deployment, supporting 200 scans per hour with 98% uptime.

Tasker: Scalable Task Management Backend | *Backend (Go)* [Link]   Feb 2025
- Created a task management system in Go with Echo framework and PostgreSQL for efficient data handling.
- Optimized with Redis caching, reducing query latency by 50% and handling 500 tasks per minute in tests.
- Deployed with Docker and Kubernetes, improving deployment efficiency by 3x.

WORK EXPERIENCE

iOS Club, VIT Bhopal University | *Backend Developer*   Sep 2022 – Sep 2023
- Developed backend APIs using Node.js and Express.js for a club management application, integrating MongoDB to manage event and participant data, increasing registration efficiency by 25%.
- Implemented secure authentication with JWT for user access control, supporting 200+ users during technical workshops and hackathons, reducing manual coordination by 20%.
- Created a Python-based automation tool with Django for event scheduling and notifications, streamlining 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