

Anmol Kamboj

Software Engineer | Agentic AI & Cloud Security | AWS Developer
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<https://portfolio-nine-lovat-52.vercel.app/>

EDUCATION

FLORIDA ATLANTIC UNIVERSITY

Master of Science in Computer Science

May 2026

GPA: 3.90/4.0

CHANDIGARH UNIVERSITY

Bachelor of Engineering in Computer Science with Gaming and Graphics

June 2023

GPA: 3.04/4.0

SKILLS

Programming Languages (Frontend & Backend): Python, C/C++, Go (Golang), Tailwind CSS, SQL, HTML, CSS, JavaScript, **Web Development:** Flask, Bootstrap, RESTful APIs, Google Maps API, **Cloud & DevOps:** Google Cloud Platform (GCP), Cloud Run, Docker, Jenkins, CI/CD Pipelines, AWS (EC2, S3, IAM), DynamoDB, **Databases:** MySQL, SQLite, SQLAlchemy, Data Modeling, **AI & Agentic Systems:** LLM Integration, Agent Orchestration, Autonomous Systems, Prompt Engineering, AI Workflow Design, **Tools & Platforms:** Git, GitHub, VS Code, Postman, Jupyter Notebook, Gemini API, **Operating Systems:** Linux, MacOS, Windows, **Software Engineering:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Test Automation, Version Control, **Soft Skills:** Communication, Time Management, Analytical Thinking, Problem Solving, Team Collaboration.

PROFESSIONAL EXPERIENCE

PENTI.AI, Boca Raton, Florida, USA

June 2025–Present

Agentic AI & Full Stack Developer

Designed and developed an **AI-powered agentic penetration testing system** using Python for backend agent orchestration and autonomous task execution.

- Architected multi-step agent workflows for automated reconnaissance, vulnerability scanning, exploitation logic, and reporting.
- Built scalable backend services in Python to manage agent decision-making, tool integration, and API communication.
- Developed a responsive frontend using **Tailwind CSS**, improving usability and real-time interaction with AI agents.
- Deployed production-ready infrastructure on AWS, managing cloud computing, storage, and networking.
- Implemented secure environment configurations, logging, and monitoring to support cybersecurity use cases.
- Optimized agent execution efficiency and system scalability for real-world pentesting scenarios.
- Collaborated in an agile team environment to integrate AI agents into a cybersecurity SaaS platform.

FOURKITES, INC., Chennai, India

August 2022–May 2023

Software Engineer

Developed and maintained the Appointment Manager, a key feature within the FourKites Web Application, enabling users to track carrier delivery schedules with precise pickup and drop-off details, like Amazon tracking but with enhanced granularity

- Utilized **Go, Python, and HTML** to build and optimize large-scale software systems.
- **Reduced performance time by 15%** through automation and code optimization.
- Designed and implemented **10+ new UI features** to improve user experience and navigation.
- Automated **50 existing features** using **Python and Virtuoso QA** (UI and integration testing), leading to a **6% reduction in execution time**

PERSONAL PROJECT EXPERIENCE

Vishvakarma, AI Agent Operating System

GitHub Link: [vishvakarma-ai](#)

April 2026–Present

- Built an open-source AI agent operating system enabling users to install and run packaged AI agents locally through a browser UI, CLI, and FastAPI-based runtime.
- Designed a custom .vk packaging standard with schema validation, dependency management, and support for both async agents and LangGraph-based workflows.
- Implemented real-time agent execution using SSE/WebSockets, multi-provider LLM support, and a privacy-first architecture where API keys remain in browser local storage and are never persisted on backend services.
- Technologies: Python, FastAPI, Next.js 14, TypeScript, SQLite, SQLAlchemy, LangGraph, SSE, WebSockets

CERTIFICATIONS

Amazon Cloud Practitioner Certificate, Amazon

March 2026

Intellectual Property Certificate, National Academy of Inventors

September 2024

Microsoft Certified: Azure Fundamentals, Microsoft

February 2023

Programming with Python, Internshala

August 2021

C++ Programming, Saylor.org

May 2021