

Anav Madan

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Summary

Virginia Tech Computer Science junior (3.89 GPA) with expertise in **Java, Python, and SQL** for building robust data pipelines and microservices. Proven ability to optimize systems using **CI/CD** practices and **Cloud** technologies. Enhanced operational efficiency by 20-40% through **Agile** development and **API integrations**. Passionate about applying **AI/ML solutions** to solve complex financial challenges in collaborative environments.

Education

Virginia Tech

BS Computer Science, GPA **3.89** | **Dean's List**

Relevant Coursework: **Data Structures & Algorithms(Java)**, Computer Organization (C/Assembly), Problem Solving (Python, **SQL**, **Azure**).

Transferable Skills:

- **Leadership:** Captained 12-0 varsity golf team; mentored 5 junior developers
- **Collaboration:** Partnered with cross-functional teams
- **Problem Solving:** Debugged critical latency issues (20% speed boost)

Experience

Sitebot sitebot.co

Fremont, CA

Full Stack Intern

05/2024 – 08/2024

- **Chatbot Optimization:** Improved Python bot accuracy **30%** via FAISS tuning and OOP design.
- **Performance Debugging:** Resolved Next.js bottlenecks using Chrome DevTools, accelerating loads **20%**.
- **Collaborated** with UX team to implement user-friendly dashboards

Buzzcraft

Fremont, CA

Full Stack Intern

05/2025 – present

- **Data Pipeline Optimization:** Enhanced GPT search with **Python**-based search API integrations, boosting content relevance 35% through **SQL** database optimization.
- **CI/CD Implementation:** Containerized analytics dashboard using **Docker**, reducing deployment time 20% and enabling seamless updates via GitHub Actions.
- **Cloud Deployment & Security:** Configured Cloudflare DNS, caching, and security rules for analytics services, improving reliability and reducing latency by 15% under senior guidance.

Projects

Achievement Analyzer (UVA Hackathon) <https://devpost.com/software/achievement-analyzer>

- Automated certification tracking using graph algorithms, saving users **35%** time.
- Engineered Mind Map visualization with efficient D3.js rendering (**25%** faster loads).

Reddit Summarizer Bot

11/2024 - present

- Built an **AI-powered bot** using fine-tuned language models (LLMs) and sentiment analysis to automate high-risk content moderation, accelerating processing by **40%**.
- Implemented real-time UI updates with event listeners, improving user interaction rates by **25%**.

Warren Buffet AI Agent

07/2025-present

- Engineered **AI decision pipeline** using stateful workflows to simulate investment strategies.
- Optimized **RESTful APIs** for real-time stock analysis (Finnhub) with 80% uptime.

Skills & Interests

Languages: **Java, Python, SQL**, JavaScript, TypeScript

Frameworks: Spring Boot (Learning), React, FastAPI, [Vue.js](https://vuejs.org/), [Next.js](https://nextjs.org/), Angular.js

Cloud/DevOps: **Cloudflare, Docker, CI/CD, Azure**, GitHub Actions

Data/AI: **Data Pipelines, Microservices**, REST APIs, LangChain, smolagents

Concepts: **Agile**, Algorithms, Object-Oriented Design, Financial Systems