

Anthony Dominguez

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Software engineer building **agentic AI systems in Python** — MCP servers, AWS Bedrock agents, and API integrations that replace manual workflows. Strongest in FastAPI backends, LLM tooling, and automation that measurably cuts human hours.

Education

Kean University, Union, NJ *May 2026*
B.S. in Computer Science — GPA: 3.75/4.0
 ◦ **Coursework:** Data Structures & Algorithms, Operating Systems, Computer Architecture, Object-Oriented Analysis & Design, Computer Systems

Union County College, Cranford, NJ *Dec. 2023*
Associate of Arts in Business — GPA: 3.715/4.0

Experience

TechFlow, Inc. (Remote) *Apr. 2026 – Present*
Software Engineer (Contract) *Aug. 2026 – Present*
Software Engineer Intern *Apr. 2026 – Aug. 2026*

- Designed an **AWS MCP server** exposing internal documentation as context to Claude-powered agents, adopted by a **4-engineer** team to query docs in natural language instead of interrupting senior staff
- Cut token usage by **35%** and agent chat response latency by **50%** on **AWS Bedrock** by caching system prompts and tool definitions across requests
- Developed a **Jira API integration** that auto-creates, triages, and updates tickets from agent-detected events, automating **30+ tickets per week** that each took **1–3 hours** to file and triage by hand
- Shipped a **Workable API** pipeline that aggregates job postings and applicant data, then runs candidates through an **AI screening layer** to surface top matches — eliminating hours of manual resume review per requisition
- Automated federal contract monitoring with a **SAM.gov** scraper that filters opportunities by NAICS code and set-aside type and surfaces matches to business development in real time, backed by **pytest** unit and integration tests that catch regressions before deploy

Computer Science Tutor (Code Samurai), Kean University *Jan. 2025 – May 2025*

- Mentored **10+** undergraduates struggling with Java, data structures, and algorithms through 1-on-1 sessions, raising average exam scores by **25%**
- Authored supplementary worksheets and live-coding walkthroughs adopted by the tutoring program, cutting repeat-question volume by **30%**

Projects

DietAI — AI Nutrition Tracking & Meal Planning App *Jan. 2026 - Mar. 2026*

- Engineered full-stack mobile app in **SwiftUI** and **FastAPI** with barcode scanning, inventory management, and macro tracking, achieving sub-**200ms** API response times
- Integrated **OpenAI API** and **Dedalus Labs SDK** to generate structured meal suggestions from user inventory, with rule-based fallback ensuring **99%** availability
- **Stack:** Python, FastAPI, SQLAlchemy, SwiftUI, React Native, TypeScript, SQLite

Facepass — Facial Recognition Authentication System *Oct. 2025*

- Implemented defense-in-depth authentication using **JWT** sessions, **Fernet** encryption, and **bcrypt** hashing, hardening user credential storage against common attack vectors
- Trained **TensorFlow/OpenCV** recognition model reaching **98%** accuracy on test set, while validating image uploads to mitigate injection attacks
- **Stack:** Python, FastAPI, TensorFlow, OpenCV, SQLAlchemy, Next.js

Technical Skills

Languages: Python, Java, C, Go, SQL, TypeScript, JavaScript
Frameworks/Tools: FastAPI, Flask, Pydantic, asyncio, pytest, Docker, Git, Next.js, React Native, SwiftUI, Pandas, TensorFlow, OpenCV
Cloud/Databases: AWS (Bedrock, Strands SDK, Lambda, SES), GCP, PostgreSQL, SQLite, Supabase, Redis
AI/Agentic: AWS Bedrock Agents, MCP Servers, Claude API, OpenAI API, Prompt Caching, Agentic Workflows, Jira REST API, Workable API