

EDUCATION

Texas A&M University, College Station, TX
Bachelor of Science in Computer Engineering

May 2028
GPA: 4.0

- Engineering Honors
- Study Abroad: Belfast, Northern Ireland (Summer 2026) - Computer Architecture and Advanced Computer Architecture
- Relevant Coursework: Intro to Digital Systems Design, Program Design and Concepts, Data Structures and Algorithms, Electrical Circuit Theory, Discrete Structures for Computing

WORK EXPERIENCE

Lead Instructor at iCode

May 2026 - Aug 2026

- Instructed classes of 10 to 15 students across diverse age groups in foundational computer science concepts, utilizing Python and Lua to drive engagement in software development.
- Tailored hands-on curriculum and adapted to student needs to enhance students' experience and problem-solving skills.

Intern at Culminate Security

Jun 2025 - Jul 2025

- Developed an AI agent using Python to automate the generation of valid CrowdStrike Query Language (CQL) queries from natural language, reducing manual query writing.
- Built a custom knowledge base by compiling extensive CrowdStrike language and syntax documentation.
- Engineered an agent-critic system and implemented local, in-memory vectorization to retrieve data from a structured grammar knowledge base, ensuring the agent enforced strict syntax rules.

Piano Teacher (self-employed)

Aug 2021 - Aug 2024

- Taught 3 elementary-grade students piano techniques, note-reading strategies, sight-reading, and music theory fundamentals through Faber Piano Adventure books

SKILLS

- Certifications: AWS Certified Developer (DVA-C02), Certified Associate Python Programmer (PCAP-31-03)
- Python, Java, CrowdStrike Query Language (CQL), C++, Verilog, ARMv8 Assembly Language, Amazon Web Services, Lua, Git, SQL

PROJECTS

- **AWS Cloud Resume** | aigoai.net/dylan/
 - Architected and deployed a serverless personal portfolio website utilizing AWS S3 for static hosting of HTML and CSS, ensuring secure, low-latency content delivery via CloudFront, Route 53, and ACM.
 - Implemented serverless backend functionality with AWS Lambda, including a live visitor tracker and dynamic PDF download feature.
 - Automated continuous deployment by writing custom Python scripts to streamline S3 object sync, file updates, and cache invalidation.
- **Verilog Microprocessor**
 - Designed and implemented a single-cycle ARMv8 processor in Verilog supporting 11 instructions (ADD, SUB, AND, ORR, ADDI, SUBI, MOVZ, LDUR, STUR, B, CBZ) across 6 instruction formats.
 - Built the datapath and control logic: 64-bit ALU, 32-register file with XZR handling, instruction and data memory, sign extender, and PC-relative branch logic.
 - Verified with custom testbenches and waveform analysis, running programs that exercise loops, memory round trips, and 64-bit constants built through MOVZ shifts.
- **Jan AI Article Summarizer**
 - Built a Python tool that scrapes web article text (requests, BeautifulSoup) and returns summaries from a locally hosted LLM through the Jan AI server API.