Alvin Cabe

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EDUCATION

University of Florida, College of Engineering — Gainesville, FL

Bachelor of Science in Computer Science, Minor in Electrical Engineering, AI Certificate — **GPA: 3.93** | May 2028

Relevant Courses: Operating Systems, MicroProcessors, Databases, Data Structures and Algorithms, Software Engineering, Digital Logic, AI Fundamentals

EXPERIENCE

Design Team Lead (Forward Deployed Software Engineering) — Jan 2025 — Present

UF Association for Computer Machinery — *Gainesville, FL*

- Spearheaded a **centralized Supabase** schema with **multi-org data isolation** and RLS, scaled for over **50,000+ users.**
- Directing a team of engineers, managing **1-to-1 client integrations** to deliver customized front-end check-in experiences.

Backend Lead — Dec 2025 — Present

Debate Central — *Gainesville, FL*

- Architected **Supabase** and **FastAPI** infrastructure to support a scalable AI-driven debate evaluation platform.
- Defined and managed relational database schema in **PostgreSQL** with the implementation of **RLS** to ensure secure data.
- Developed RESTful API endpoints for core features: user profiles, debate management, and automated session updates.

Software Engineering Intern — Oct 2025 — Dec 2025

Prepify AI — *Gainesville, FL*

- Created an adapted Practice Module interface with a **progressive learning architecture** that **dynamically unlocks units** and features assessments based on **real-time dialogue**, to be stored, sent, and integrated within the **n8n pipeline.**
- Made a state-driven frontend with MongoDB to synchronize AI dialogue history and conditional module unlocking.

PROJECTS

TL;DR | *Next.js, React, Supabase, Python, TypeScript, GeminiAPI* — Jan 2026

- Structured a **Supabase backend** for global course search and **syllabus persistence**, reducing redundant API calls.
- Engineered a parsing pipeline using **Google Gemini 1.5 Flash** to extract grading policies and academic dates into structured JSON, automating dashboard population and allowing for a simulated calender with **.ics calendar exports**.
- Developed a **context-aware chatbot** and real-time review board with a **weighted 'like' algorithm** to prioritize high-quality student feedback, leveraging **custom JSON caching** to reduce LLM latency and minimize API costs.

Taskmate | *Next.js, AWS (Amplify, S3, DynamoDB), JavaScript, React, TailwindCSS* — Sep 2025 — Dec 2025

- Lead backend developer for a secure, **real-time buddy-based task system** for college students with **.edu verification.**
- Designed scalable database schemas in **AWS DynamoDB** to manage user profiles, messaging, and task verification via **S3.**
- Engineered core administrative infrastructure using **AWS Amplify**, including report handling, messaging, buddy request logic, as well as **role-based access** with admin dashboard controls, to ensure **security** and **scalability**.

Movie Matcher | *C++, Flask, React, Python* — June 2025 - Oct 2025

- Led behind a movie recommendation service processing **87K+ movies** and **1M+ ratings** across **20 genres.**
- Optimized algorithms by **15%** with custom data structures and algorithms, allowing query operations in under **0.3** seconds.
- Led initial prototype development through **Agile methods**, and independently worked to expand into a full-stack web app.

EXTRACURRICULAR

Marketing Lead | *UF Association for Computing Machinery* — Aug 2024 - Present

- Design digital assets and manage social media campaigns for a **2,000+** member community, boosting attendance by **50%** and active participation among **700+** registered members through targeted marketing initiatives.

Software Engineering Track Fellow | *Management Leadership for Tomorrow (MLT)* — Nov 2025 - Present
APEX National Board Member | *National Society of Black Engineers (NSBE)* — Aug 2024 - Present
National Board Member | *ColorStack* — Aug 2024 - Present

SKILLS

Languages: Python, JavaScript, TypeScript, C++, SQL, Java HTML, CSS, VHDL, Assembly (RISC V, MIPS)
Frameworks: React, Next.js, Node.js, Express, Flask, Tailwind CSS, SFML
Tools and Technologies: Supabase, MongoDB, Linux, Git, GitHub, VS Code, MATLAB, AWS (Amplify, S3, DynamoDB), Jira, Linear, Agile/Scrum