

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, Computer Organization, Digital Logic

SKILLS

Languages: Python, JavaScript, TypeScript, C++, SQL, Java HTML, CSS, VHDL, Assembly (RISC V, MIPS, AVR)

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

EXPERIENCE

Design Team Lead (Forward Deployed Software Engineering)

Jan 2025 - Present

UF Association for Computing 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

- Designed **Supabase** and **FastAPI** infrastructure to support a scalable AI-driven debate evaluation platform.
- Defining and managing relational database schema in **PostgreSQL** with the implementation of **RLS** to ensure secure data.
- Developing **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.
- Optimized 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 calendar 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, TypeScript

June 2025 - Oct 2025

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

LEADERSHIP & PROFESSIONAL DEVELOPMENT

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

- Accepted into a selective 18-month professional development program for high-achieving diverse talent.

APEX National Board Member | National Society of Black Engineers (NSBE)

Aug 2024 - Present

National Board Member | ColorStack

Aug 2024 - Present