Charles Milton

charlesmiltoncs@gmail.com
LinkedIn • GitHub • Portfolio

EDUCATION

California State University, Long Beach | Long Beach, CA

Major: Computer Science | **GPA:** 3.4   **Expected Graduation:** May 2026

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, System Programming, Software Engineering, Calculus III, Linear Algebra, Probability & Statistics, Machine Learning

EXPERIENCE

Amazon   May 2025

Role: Incoming Software Development Engineer Intern
- Will be joining Amazon as a Software Development Engineer Intern this Summer.

DreamWay Media   September 2024 - December 2024

Role: Software Engineer Intern
- Assisted in building and maintaining **e-commerce dynamic websites** using **PHP**, **React**, and modern web technologies, contributing to **e-commerce** platforms and optimizing for speed, **SEO**, and **user experience**.

Association for Computing Machinery   August 2024 - Present

Role: Full-Stack Developer
- Developed and launched the **2024 official ACM at CSULB website** for **500+ members**, featuring **event management**, **dashboards**, an **interactive blog**, and a **custom CMS**.

XR Engineering Club   September 2023 - Present

Role: Full-Stack Developer (Prev. Project Lead)
- Created the **club's website** and **led a team of 10 developers to develop an AR cooking simulator game** that prioritized **functionality**, featuring key elements like **recipe management** and **scoring**.

PROJECTS

CSULB Schedule Generator | Web App *(Flask, AWS Lambda, Redis, Supabase, Tailwind CSS)*   March 2025
- Developed a tool that **generates optimized course schedules**. Built in **Flask**, it scrapes real-time course data (stored in **Supabase via AWS Lambda**), applies filters (professor, time, day), uses **Redis caching with in-memory fallback**, integrates **RateMyProfessor ratings via GraphQL**, and features interactive **Tailwind CSS calendars**.

Rate My CSULB Professors | Chrome Extension *(HTML, CSS, JavaScript)*   December 2024
- Engineered a Chrome extension that **integrates professor ratings into CSULB's course registration platforms**, **gaining 200+ active users** by solving a key student pain point.
- Implemented **GraphQL APIs** and a **200-entry LRU caching system**, reducing query latency by **up to 50%** and enhancing real-time data retrieval.

Lingo AI | Hackathon AI Project *(Flask, Next.js, Node.js, Express.js, Firebase)*   June 2024
- Built an AI-powered language trainer integrating **Flask**, **Next.js**, and **OpenAI APIs** to deliver real-time grammar feedback for 50+ languages, while leveraging **Hume AI** for emotion analysis to boost user engagement and learning.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, C++, C#, PHP, HTML/CSS
Libraries/Frameworks: React.js, Next.js, Flask, Node.js, Express.js, Tailwind CSS
Databases: MongoDB, PostgreSQL, Firebase, Supabase, MySQL
Machine Learning & AI: TensorFlow, PyTorch, scikit-learn, pandas, Matplotlib, Seaborn