

Charles Milton

charlesmiltoncs@gmail.com
[LinkedIn](#) • [GitHub](#) • [Portfolio](#)

EDUCATION

California State University, Long Beach | Long Beach, CA

Major: Computer Science

Expected Graduation: May 2026

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Software Engineering, Operating Systems, Machine Learning, Artificial Intelligence

Organizations: Full-Stack Developer for the Association for Computing Machinery (500+ members) and XR Engineering Club, driving web platform development and supporting student engagement initiatives.

EXPERIENCE

Associated Students Inc. at CSULB

August 2025 - Present

Software Developer

- Maintain and enhance ASI's web platforms to ensure **accessibility, reliability, and performance for 40,000+ students**.
- Develop **responsive websites** supporting student programs and events, improving engagement across campus.
- Leading modernization efforts by migrating outdated platforms to **React** and **AWS-based solutions** for **long-term scalability**.

Amazon

May 2025 - August 2025

Software Development Engineer Intern

- Developed and integrated an **AWS-native service** in **Java** to correct retail inventory misclassification in fulfillment centers, **reducing cost data inaccuracies by 82% in North America** and **23% in Europe**, with **AWS CloudWatch** leveraged for metrics tracking, monitoring, and performance optimization.
- **Delivered project ahead of schedule** and optimized performance, improving financial reporting for all accounting teams.
- Collaborated with two engineers to resolve a **Sev-2 incident impacting 1,700+ transactions** by creating a hotfix that restored system stability and data integrity.

DreamWay Media

September 2024 - December 2024

Software Engineer Intern

- Restructured and upgraded existing e-commerce architecture with **PHP** and **React**, resulting in a **30% improvement in website performance score**, which was the **highest on record**.
- **Incorporated Docker to containerize the development environment for a 5-person team**, enabling cross-OS consistency, faster onboarding, and reducing environment-related bugs.

PROJECTS

TurnTalks | AI-Powered Discussion Platform (*Next.js, React, Supabase, OpenAI API, Tailwind CSS*) April 2025

- Enabled 30+ member book club to host automated guided sessions with **auto-generated prompts**, **real-time speech transcription** and **audio playback via OpenAI's TTS**, leading to an **80% increase in member participation**.

CSULB Schedule Generator | Web App (*Flask, AWS Lambda, Redis, Supabase, Tailwind CSS*) March 2025

- Developed a tool that **generates 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.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript/JavaScript, C++, C#, PHP, HTML/CSS

Frameworks/Tools: React, Next.js, Node.js/Express, Flask, Tailwind CSS, Docker, Git/GitHub, CI/CD, Postman, JUnit

Cloud/Databases: Amazon Web Services (Lambda, DynamoDB, S3, CloudWatch), Google Cloud Platform, PostgreSQL, MySQL, MongoDB, Firebase, Supabase, Neo4j, Redis, GraphQL