Charles Milton

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SUMMARY

Software Engineer with experience at Amazon and CSULB, skilled in backend, cloud, and full-stack development. Strong in Java, Python, and JavaScript with a track record of building scalable, user-focused solutions and improving system reliability.

EXPERIENCE

Software Developer

Associated Students Inc. at CSULB

August 2025 - Present, Long Beach, CA

- Replaced 22WestMedia's Issuu digital-magazine hosting (third-party platform, \$500/month) by building a custom flipbook solution and an admin dashboard for uploads/metadata with React,
 Node.js, Cloudflare R2, and MongoDB, which eliminated hosting costs by 100% and improved access for thousands of readers.
- 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.

Software Development Engineer Intern

Amazon

May 2025 - August 2025, Bellevue, WA

- Developed and integrated an AWS-native service in Java to correct retail inventory misclassification in fulfillment centers, reducing cost data inaccuracies by ~80% across multiple regions, with AWS CloudWatch leveraged for metrics tracking, monitoring, and performance optimization.
- Authored internal documentation for the new service, improving onboarding and knowledge sharing across engineering and 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.

Software Engineer Intern

DreamWay Media

September 2024 - December 2024, Glendale, CA

- Replicated designer mockups from Figma into fully functional, responsive web pages using PHP and React, ensuring perfect implementation.
- Refactored core modules of e-commerce applications, improving performance scores by 30% as measured by standardized tools.
- Incorporated Docker to containerize the development environment for a 5-person team, enabling cross-OS consistency, faster onboarding, and reducing environment-related bugs.

PROJECT

TurnTalks | Al-Powered Discussion Platform (Next.js, React, Supabase, OpenAl API, Tailwind CSS)

www.turntalks.com/ • April 2025 - April 2025

- Designed automated guided discussion sessions for a 30+ member book club using Next.js and React.
- Integrated real-time features with Supabase and OpenAI API TTS to enable speech transcription and audio playback.

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

csulb-schedule-generator.vercel.app/ • March 2025 - March 2025

- Built a course schedule generation app with Flask and Tailwind CSS, featuring filters by professor, time, and day.
- Automated real-time data scraping with AWS Lambda and Supabase, optimized performance with Redis caching, and integrated RateMyProfessor ratings using GraphQL.

Rate My CSULB Professors | Chrome Extension (HTML, CSS, JavaScript)

 $chromewebstore.google.com/detail/rate-my-csulb-professors/hfacilllhlfjdaakkmhmbdkidcibhoco \bullet December 2024 - December 2024 -$

- Engineered a Chrome extension that integrates professor ratings into CSULB's course registration platforms, gaining 300+ 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.

EDUCATION

Computer Science

California State University Long Beach • Long Beach, CA • 2026

• Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Databases, Software Engineering, Operating Systems, Machine Learning, Artificial Intelligence, Distributed Networks and Computing,

INVOLVEMENT

Full-Stack Developer

California State University Long Beach • Association for Computing Machinery • August 2024 - August 2025

- Built the ACM website with Next.js, MongoDB, GCP, and TailwindCSS, centralizing event updates and resources for 500+ members
- Enhanced the BeachHacks hackathon platform by integrating user-driven features and refining UI components, helping the event surpass 300+ applications (50% above capacity).

Full-Stack Developer & Project Lead

California State University Long Beach • XR Engineering Club • September 2023 - August 2025

- Developed and maintained the club website using Next.js, Supabase, GCP, and TailwindCSS, automating event updates and email notifications for 100+ members.
- Led the development of an AR Cooking Simulator using Unity and AR frameworks, showcased at the Senior Project Expo and selected by the CSULB ISPACE Lab for further collaboration.

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