

Charles Milton

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EDUCATION

California State University Long Beach

Bachelor of Science in Computer Science

Long Beach, CA

Aug. 2022 – May 2026

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

Leadership: Lead Developer at ACM at CSULB; Project Lead at XR Engineering Club

Certifications: Machine Learning Specialization (DeepLearning.AI, Stanford, Coursera)

EXPERIENCE

Software Developer

Associated Students, Inc. at California State University Long Beach

Aug 2025 – Present

Long Beach, CA

- Replaced a \$500/month third-party magazine host with an in-house viewer and uploads dashboard (React, Node.js, Cloudflare R2, MongoDB, GridFS), cutting cost to **\$0 (\$6k/yr)** and serving thousands of users.
- Maintain and develop ASI web platforms for **40,000+** students with accessibility, reliability, and performance goals.
- Ship responsive features for student programs and events that increase engagement across campus.

Software Development Engineer Intern

Amazon

May 2025 – Aug 2025

Bellevue, WA

- Built an AWS-native Java service to correct retail inventory misclassification in fulfillment centers, reducing cost data inaccuracies by **80%** globally and adding CloudWatch metrics and monitoring.
- Collaborated with SDE II engineers to resolve a Sev-2 affecting **1,700+** transactions by shipping a hotfix that restored system stability and data integrity.
- Authored internal documentation that improved onboarding and knowledge sharing across engineering and accounting teams.

Software Engineer Intern

DreamWay Media

Sep 2024 – Dec 2024

Glendale, CA

- Converted Figma designs into responsive PHP/React pages with pixel-accurate UI.
- Refactored e-commerce web apps, boosting performance scores by **30%**.
- Containerized development with Docker for a 5-person team, speeding onboarding and reducing environment issues.

PROJECTS

SharkPark | *React Native, NestJS, TypeScript, AWS (LocalStack, DynamoDB), Docker*

Aug 2025 – Present

- Lead developer for a 5-person senior project** building a mobile parking platform for 30,000 CSULB commuters that uses **privacy-preserving sensors** with geofencing and activity recognition to capture enter and leave events.
- Architected a **full-stack monorepo** with a NestJS API and React Native app to aggregate live signals, serve occupancy, and prepare **ML forecasting** and personalized lot recommendations using **DynamoDB Local, LocalStack, Docker**, and GitHub Actions CI.

ACM at CSULB Website | *Next.js, MongoDB, Cloudinary, Discord API, JWT*

Oct 2024 – Present

- Built and shipped the **official ACM CSULB platform** with events, blogs, and member tools for a **community of 500+ students**.
- Developed a **JWT**-secured admin dashboard with **Cloudinary** media and automated email and **Discord** announcements, delivering a responsive, SEO-friendly site that improves officer workflow.

Rate My CSULB Professors | *JavaScript, Manifest V3, GraphQL, HTML/CSS*

December 2024

- Chrome extension that overlays live professor ratings inside CSULB's registration platforms, used by **300+** students to speed up course planning.
- Built GraphQL integration with a 200-entry LRU cache to reduce query latency by **50%** and keep the UI responsive.

TECHNICAL SKILLS

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

Frameworks & Libraries: React, Next.js, React Native, Node.js, NestJS, Flask, Tailwind CSS, GraphQL

Cloud/DB/Infra: AWS (Lambda, DynamoDB, S3, CloudWatch), Google Cloud Platform, Docker, LocalStack, MongoDB/GridFS, PostgreSQL, MySQL, Firebase, Supabase, Neo4j, Redis

Tools & DevOps: Git/GitHub, PNPM/Turborepo, GitHub Actions, Postman, JUnit, Chrome Extensions (MV3)