

Charles Milton

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EDUCATION

California State University Long Beach <i>Bachelor of Science in Computer Science</i>	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: <u>Machine Learning Specialization</u> (DeepLearning.AI, Stanford, Coursera)	

EXPERIENCE

Software Developer <i>Associated Students, Inc. at California State University Long Beach</i>	Aug 2025 – Present Long Beach, CA
<ul style="list-style-type: none">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 <i>Amazon</i>	May 2025 – Aug 2025 Bellevue, WA
<ul style="list-style-type: none">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 <i>DreamWay Media</i>	Sep 2024 – Dec 2024 Glendale, CA
<ul style="list-style-type: none">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 <i>React Native, NestJS, TypeScript, AWS (LocalStack, DynamoDB), Docker</i>	Aug 2025 – Present
<ul style="list-style-type: none">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 <i>Next.js, MongoDB, Cloudinary, Discord API, JWT</i>	Oct 2024 – Present
<ul style="list-style-type: none">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 <i>JavaScript, Manifest V3, GraphQL, HTML/CSS</i>	December 2024
<ul style="list-style-type: none">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)