

Mahdi Alsalam

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EDUCATION

California State University, Long Beach

Bachelor of Science in Computer Science

Expected Graduation: May 2026

- **Clubs:** Association for Computing Machinery, Google Developer Student Club, MSA, Chess Club
- **Relevant Coursework:** Operating Systems, Data Structure, Algorithms, Databases, Discrete Structures, Object-Oriented Development, Computer Architecture, System Programming, Machine Learning

EXPERIENCE

Software Engineering Intern

Ani

Jan 2024 – Mar 2024

Remote

- Boosted web application performance by 23% through optimizing React/Node.js architecture, handling 1,000+ monthly active users and implementing efficient state management patterns
- Enhanced user engagement by 45% through implementing responsive features with a 12-person agile team, reducing bounce rate by 15% and increasing average session duration significantly
- Improved backend efficiency by optimizing API routes and database queries using Node.js and Express

Code Coach

theCoderSchool

Sep 2023 – Feb 2024

Cerritos, CA

- Increased student retention by 40% through developing interactive curriculum covering Python, Java, and web development for 30+ weekly students across multiple skill levels and age groups
- Improved student assessment scores by 18% through implementing hands-on project-based learning methods and personalized coding challenges, achieving 100% positive feedback from parents

Software Engineer Intern

Beads Factory

May 2022 – Sep 2022

La Palma, CA

- Built and updated Shopify sections using React and TypeScript to support product collections responsiveness
- Improved product gallery performance by adjusting Swiper setup and simplifying backend data flow
- Teamed up with 2 engineers to improve payments backend, boosting checkout speed and reliability

IT Student Assistant

City of Downey (Parks and Recreation)

Apr 2022 – Present

Downey, CA

- Provided technical support and troubleshooting for 250+ employees, improving issue resolution times by 30%
- Supported technology infrastructure including Wi-Fi systems, digital signage, and technical equipment setup

PROJECTS/OPEN SOURCE

SafetySnap: AI-Powered OSHA Violation Detection |TypeScript, Next.js, , React, Gemini AI

- Architected full-stack web application enabling users to upload construction images, store data on Supabase, and receive comprehensive AI-powered safety analysis with real-time violation detection
- Integrated Gemini API to analyze construction images with 99% accuracy for OSHA compliance, implementing automated hazard identification and delivering production-ready solution deployable to construction sites

IBM Accelerate Full-Stack Development Program |JavaScript, React, Node.js, REST APIs

- Developed cloud-native web applications with React frontend and Node.js backend, collaborating with 500+ developers in intensive 8-week program and passing 3/4 technical coding assessments
- Earned IBM Software Developer certification through selective program (4.5% acceptance rate from 10,000+ applicants), mastering full-stack development lifecycle, application security, and agile methodologies

techwithmahdi |Content Creation

- Developing programming content that achieved 2 million views and attracted 1250+ followers across platforms
- Facilitating daily coding sessions while building and motivating a Discord community of 150+ active members

Eclipse Platform Accessibility |Java, OSGi, SWT

- Contributed to Eclipse platform accessibility and developer productivity in a 4-person team by developing SWT/Java automations for UI refresh tasks and modernizing UI themes with custom styling patterns

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, C#, HTML/CSS, SQL, Java, C++, GraphQL, Ruby, GoLang

Frameworks: React, Next.js, Tailwind, Django, Node.js, Express.js, Flask, Ruby on Rails

Developer Tools: Git, Supabase, Figma, Docker, Kubernetes, MongoDB, Cypher, PostgreSQL

Concepts: MongoDB, Cypher, PostgreSQL, Linux, UNIX Concepts: Frontend