

Mahdi Alsalam

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Education

California State University, Long Beach

Bachelor of Science, Computer Science

Expected Graduation: May 2026

- **Relevant Coursework:** Operating Systems, Data Structures, Algorithms, Databases, Discrete Structures, Object-Oriented Programming, Computer Architecture, System Programming, Machine Learning, Linear Algebra

Experience

Premier Elite National Basketball Team

Aug 2025 - Oct 2025

Software Engineer Intern

Downey, CA

- Built a full-stack parent portal using React and Node.js for player sign-ups, jersey sizing, and roster management.
- Enhanced UI responsiveness and navigation speed by optimizing component rendering and state handling in React.
- Streamlined data flow between frontend forms and backend storage, improving form submission reliability and access.

Ani

Jan 2024 - Mar 2024

Software Engineer Intern

Remote

- Boosted app performance by 23% by optimizing React and Node.js, caching requests, and reducing bundle size.
- Increased user engagement by 45% through responsive UI features with a 12-person agile team, cutting bounce rate.
- Enhanced backend reliability by refining API routes, adding pagination, and optimizing Express database queries.

theCoderSchool

Sep 2023 - Feb 2024

Code Coach

Cerritos, CA

- Raised student retention 40% by teaching an interactive curriculum in Python, Java, C++, and Web Dev.
- Lifted assessment scores 18% with hands on projects and personalized challenges keeping them engaged and motivated.
- Improved students' debugging speed and code quality by introducing Git workflows and live code reviews in VS Code.

Beads Factory

May 2022 - Sep 2022

Software Engineer Intern

La Palma, CA

- Implemented Shopify sections with React and TypeScript to showcase collections that resize well on cross platforms.
- Sped up product galleries by updating Swiper settings, lazy loading images, and simplifying data flow from the store.
- Worked with two engineers to steady the payments flow by cleaning checkout logic and improving error handling.

Projects

Serenity: EEG-Based Autism Stress Detection & Relaxation (*Next.js, Supabase, BrainFlow, BrainBrowser*)

- Built a real-time EEG platform that visualizes stress in autistic individuals using live brainwave data and 3D modeling.
- Designed Serenity Mode, a relaxation experience with adaptive visuals and 528 Hz soundscapes reacting to brain waves.
- Integrated Supabase to store EEG sessions and analytics, enabling caregivers to monitor progress and identify triggers.

ThriveSites: Small Business Website Platform (*Next.js, TypeScript, Tailwind, Vercel*)

- Founded a web services business generating \$1K+ MRR, creating responsive and engaging sites for small businesses.
- Delivered 5+ production-ready client sites using automated deployments, ensuring uptime and consistent reliability.
- Optimized UI performance with reusable components and lazy loading, reducing page load time by 30%.

SafetySnap: AI-Powered OSHA Violation Detection (*TypeScript, Next.js, React, Gemini AI*)

- Developed a full-stack platform for construction image uploads, AI analysis, and OSHA violation detection.
- Integrated Gemini AI to achieve 99% hazard-detection accuracy, automating compliance checks in real time.
- Deployed scalable production build on Vercel with secure APIs and optimized inference pipelines for speed.

IBM Accelerate Full-Stack Development Program (*JavaScript, React, Node.js, REST APIs*)

- Collaborated with 500+ developers to build cloud-native web apps using React, Node.js, and RESTful services.
- Earned IBM Software Developer Certification (top 4.5% of 10K+ applicants) for excellence in full-stack development.

Skills

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

Frameworks and Libraries: React, Next.js, Tailwind CSS, Node.js, Express.js, Supabase

Tools: Git, Docker, Kubernetes, Vercel, Figma, PostgreSQL, MongoDB, GraphQL, Linux, Firebase, AWS, NoSQL, Excel,

Concepts: Backend Development, Frontend Development, Fullstack Development, Software Engineering, Machine Learning, Networking, CI/CD, Microservices, Infrastructure Engineering, DevOps, Automation, Agile, UI/UX, REST API