

# Jay Buensuceso

jbuens001@gmail.com | US Citizen | Willing to relocate | Eligible for Security Clearance

## EDUCATION

**University of California, San Diego**

**San Diego, CA**

*B.S. Cognitive Science Machine Learning, Minor in Computer Science*

**Graduated Mar 2024**

## EXPERIENCE

**Qualcomm Institute**

**San Diego, CA**

**Research & Development Engineer I (Contract)**

**Apr 2024 - Nov 2024**

- Increased Makerspace engagement by 25% by developing a React + Node.js digital signage platform powering daily events and announcements
- Cut backend latency 40% by profiling REST APIs and optimizing PostgreSQL queries, improving responsiveness of the central admin dashboard for the signage system

**Qualcomm Institute**

**San Diego, CA**

**Makerspace Intern**

**Mar 2023 - Mar 2024**

- Reduced 3D printer downtime from 7 days to 48 hours by building a React + Redux dashboard with PrusaLink API, giving staff real-time visibility into print farm issues
- Enabled seamless check-ins for 5,000+ students and supported 8,000+ monthly logins by developing a user management system with integrations to Google Sheets and UCSD APIs

**Climbr - AI Climbing and Workout Tracker**

**San Diego, CA**

**Full Stack Developer**

**2024 - Present**

- Designed and launched a SaaS-style fitness tracking platform (Next.js + TensorFlow.js MoveNet) delivering real-time climbing feedback, tested by 100 beta users
- Optimized data retrieval with TanStack Query caching, boosting application responsiveness by 80% and enabling smoother workout tracking and analytics

**FIRST Tech Challenge League Selection**

**San Diego, CA**

**Full Stack Developer (Contract)**

**2021 - Present**

- Streamlined league selection logistics for an 80-team robotics region by developing a real-time scheduling application (React + MongoDB, later migrated to Convex), adopted across 4 competition seasons
- Improved data entry accuracy and reduced planning overhead for tournament organizers by replacing manual spreadsheets with a centralized, automated system

**Cultural Heritage Engineering Initiative**

**San Diego, CA**

**Research Assistant**

**2021 - 2022**

- Delivered a React + Three.js visualization tool enabling remote inspection of 1M+ point cloud datasets, reducing on-site analysis time for UCSD research teams by 70%
- Deployed the application to AWS with CI/CD pipelines (GitHub Actions), ensuring reliable updates, scalable performance, and continuous availability for lab researchers

## SKILLS

- Languages:** TypeScript, JavaScript, Python, SQL
- Frontend:** React, Next.js, Svelte, Tailwind, TanStack Query, Redux, JWT, Zod
- Backend:** Node.js, Express, PostgreSQL, Convex, Supabase, Firebase, MongoDB, REST APIs
- DevOps:** Docker, Kubernetes, AWS, CI/CD (GitHub Actions, GitLab)
- AI/ML:** TensorFlow.js, LLM prototyping
- Tools:** Playwright, Figma, Framer, Git