

## Education

**University of California San Diego (UCSD)** Expected June 2027  
*B.S. Cognitive Science, Machine Learning & AI Specialization, Minor: Computer Science* GPA: 3.6  
**Relevant Coursework:** Data Structures, Algorithms, Machine Learning, Neural Networks, Statistical Analysis

## Technical Skills

**Core Technologies:** Next.js 15, React 19, TypeScript, Python, C++, Node.js  
**Backend & Databases:** MySQL, Prisma ORM, Sanity CMS, REST APIs, GraphQL  
**Cloud & DevOps:** Vercel, Oracle Cloud, AWS S3, Upstash Redis, Sentry  
**ML & AI:** YOLOv8, OpenCV, OpenAI Whisper, Boosting, SVM, Neural Networks, GAMS, PCAS, Pandas, Numpy  
**Game Dev & VR:** Unreal Engine 5, Virtual Reality Development, HCI, Simulation  
**Tools & Integrations:** Stripe, NextAuth.js, Printful API, Resend API, Git, Docker, CI/CD, Webhook Integration

## Professional Experience

**Qualcomm Institute at UCSD | VR Research Intern** Fall 2025 - Present

- Developing AI-powered virtual reality avatars using Unreal Engine 5 for educational classrooms and museums
- Contributing AI object detection to VR SmartClassroom and NanoVerseVR for guided tutorials and nanoscale exploration
- Collaborating with faculty leaders on immersive technology research blending game development, ML, and HCI

**Clutch Studio | Founder & Full-Stack Developer** Spring 2025 - Present

- Founded web development company serving real clients with full-stack solutions using Next.js 15, React 19, TypeScript
- Built comprehensive business platforms with admin dashboards, project management, payment processing, real-time data sync
- Deployed production applications with cloud infrastructure, monitoring, and CI/CD pipelines gaining me 3+ clients

**In-N-Out Burger | Food Service** Spring 2021 - Fall 2025

- Prepared, cooked, and serviced food for customers with exceptional teamwork and customer service

## Key Projects

**ColorStack @ UCSD - Community Platform** Fall 2025 | [Visit Site](#)

- Designed and built first website for 2-year-old chapter serving 50+ Black and Hispanic CS students using Next.js 16, React 19
- Implemented event calendar, member directory, and board structure improving operations and online presence

**Digital Revolution - Nonprofit E-commerce Platform** Summer 2025 | [Visit Site](#)

- Built full-stack nonprofit platform using Next.js 15 to expand STEM education access to underprivileged communities
- Implemented e-commerce with Stripe payments, Printful API fulfillment, NextAuth.js v5 authentication, donation system

**Golden Eagle Estates - Business Platform** Spring 2025 | [Visit Site](#)

- Built full-stack business management platform for construction company with admin dashboard and project tracking
- Integrated AWS S3, JWT authentication, rate limiting, and comprehensive customer management system
- Gained 2x more clients from online presence and improved workflow.

**Custom YOLOv8 Object Detection Model** Spring 2025 | [View Project](#)

- Trained domain-specific YOLOv8 model achieving 79.4% fitness score on 351 hand-labeled images
- Built complete ML pipeline: video recording, frame extraction, annotation, training, and deployment to detect personal objects

## Technical Achievements & Leadership

- **VR Research:** Integrating machine learning into immersive educational experiences at prestigious research institute
- **Nonprofit Technology:** Built comprehensive e-commerce platform supporting STEM education with 50% profit allocation
- **Payment Integration:** Implemented complex payment flows including subscriptions, webhooks, and order management
- **UCSD Table Tennis:** Key player securing 1st place for JV team, defeating UCLA
- **HSF Scholar:** Was awarded the prestigious HSF Scholar award for my academic excellence
- **Upperclassmen Excellence in Mathematics:** Selected by the mathematics faculty at El Dorado High School during my senior year for my passion and performance in math courses.