

Navid Nikoo

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Education

California State University, Fullerton — Fullerton, CA

Bachelor of Science in Computer Science | May 2026

Projects

EligibilityCopilot | Python, Playwright, SQLite

- Built a workflow automation platform that verifies insurance eligibility across Practice Fusion, Availity, and CalOptima.
- Designed queue orchestration, audit logging, retry policies, and human-in-the-loop review workflows.
- Reduced manual eligibility verification from ~10 hours/week to under 10 minutes/week of oversight.

Physics Engine | C++, OpenGL, GLM

- Built a real-time 3D rigid-body physics engine using AABB broadphase, SAT collision detection, and analytic sphere tests.
- Implemented iterative impulse solver with Baumgarte bias, split-impulse correction, friction, damping, and sleep/awake logic for stable stacking.
- Designed modular architecture (RigidBody, Shape, Solver, Manifold) with interfaces for forces, torques, quaternions, and contact manifolds.

CipherCare | React, Node.js, Express, PostgreSQL, Twilio

- Designed PostgreSQL-backed REST APIs for patients, conversations, messages, phone numbers, audit logs, sessions, and retention workflows.
- Implemented HIPAA-minded security controls including AES-256-GCM encryption for message/internal-note bodies, redacted audit logging, TOTP 2FA, rate limiting, and Twilio webhook signature validation.
- Added organization-scoped access controls and retention/right-to-erasure workflows for handling sensitive patient communication data.

TradeSense | React, Firebase, OpenAI, Finnhub

- Built a sentiment-aware market intelligence platform with live stock data, technical indicators, and AI-generated sentiment analysis
- Architected server-side API proxy and caching infrastructure using Firebase Cloud Functions to handle rate limits and secure third-party integrations
- Implemented authenticated dashboards, watchlists, alerts, and time-lapse AI chat using Firestore and OpenAI APIs

Work Experience

Alliance Psychiatric Group | Office Manager | Irvine, CA | May 2024 – Present

- Manage patient intake, scheduling, insurance, and operational workflows for 100+ patients weekly.
- Coordinate authorizations, billing, and prescriptions, reducing approval turnaround time by 20%.
- Draft correspondence and maintain 1,000+ patient records to support psychiatrists.

Freelance Web Developer (Contract) WholeCare Health | Irvine, CA | April 2026 – Present

- Developed and deployed a production website for a private psychiatry practice using Next.js and React.
- Collaborated directly with stakeholders to gather requirements and iterate on UX and functionality.
- Implemented responsive design, service pages, insurance information, and patient contact workflows
- Implemented responsive patient, insurance, and contact workflows; maintain the live site at wholecarehealth.org.

Technical Skills

- Languages: C++, Python, JavaScript, SQL, R, HTML/CSS
- Technologies: React, Node.js, Firebase, Firestore, PostgreSQL, MySQL, SQLite, Playwright, Docker, Git/GitHub, OpenGL