

Nathan Chamorro

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EDUCATION

California State University, Fullerton, Fullerton, CA

Expected May 2026

Bachelor of Science in Computer Science

Relevant Coursework: Data Structures and Algorithms, Cloud Computing & Security, Web Back-End Engineering and Mobile App Development

SKILLS

Programming Languages: Python, C++, SQL, JavaScript, HTML, CSS, Dart

Technologies: React, FastAPI, Flutter, Git, Docker, AWS, Firebase, PostgreSQL, Terraform, GitHub Actions, Linux, StarRez API

PROFESSIONAL EXPERIENCE

California State University, Fullerton – Housing and Residential Engagement, Fullerton, CA

October 2024 - Present

Residential Technology Assistant

- Built SQL queries to power application workflows including email triggers, page logic, report generation, and room selection cohort organization for 3,700+ applicants
- Configured and launched room selection system for a new residential building, importing all room inventory and implementing round-based timeslot scheduling to distribute load across 3,000+ students
- Implemented conditional logic and policy-driven form requirements across application pages based on directives from Housing executive leadership and the CSUF Vice President's office
- Managed roommate messaging system, gender/room profile assignments, and booking validation to ensure data integrity across the full applicant lifecycle
- Provided technical support for network and device issues across a 2,000+ resident housing community
- Received departmental award from the Executive and Associate Director for exemplary contributions to housing technology initiatives

SECURITY EXPERIENCE

California State University, Fullerton – ECS Center for Cybersecurity, Fullerton, CA

November 2025 - Present

Red Team

- Selected for offensive security training under Dr. Mikhail Gofman, Director of the Center for Cybersecurity, focusing on advanced adversary emulation, techniques, tooling, and attack methodologies
- Competed in collegiate cybersecurity competitions involving network exploitation, web application attacks, and system compromise

PROJECTS

CSUF Housing Automations | SQL, JSON, StarRez API, Power Automate

November 2025

- Designed and implemented automated workflows to replace manual housing lockout and billing processes
- Integrated Microsoft Forms, Power Automate, and the StarRez API to generate accurate lockout records and billing entries
- Wrote SQL queries to validate resident data and prevent duplicate or incorrect charges
- Reduced manual review time and billing errors by standardizing lockout workflows across teams within Housing

TitanPark | Flutter, FastAPI, PostgreSQL, Firebase, Docker

August 2025

- Designed and developed a concept full-stack peer-to-peer parking marketplace mobile app for CSUF's 40,000+ students on campus
- Implemented Firebase Authentication for secure login, allowing students to list and reserve parking spots within the same account
- Built RESTful APIs with FastAPI and PostgreSQL to handle spot listings, reservations, and an in-app credit transaction system
- Designed dynamic peak pricing logic to automatically adjust spot prices during high-demand hours

AI Posture Correction Tool | Python, OpenCV, MediaPipe, Cerebras

April 2025

- Built an AI-powered posture correction tool to provide real-time posture feedback using computer vision
- Awarded "Best Use of Cerebras AI" at FullyHacks 2025 (ACM)