

# Gael Alejandro Fonseca

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## EDUCATION

**California State University, Fullerton**

Expected May 2027

*Bachelor of Science, Computer Science, Cybersecurity Concentration*

## TECHNICAL SKILLS

**Certifications:** CompTIA CySA+, CompTIA Security+, CompTIA Network+, OCI AI Professional

**Languages:** Java, C++, Python, SQL, JavaScript, HTML/CSS, Bash

**Developer Tools:** Kali, Wireshark, Burp Suite, Snort, Spring Boot, Git, React, Node.js, Google Cloud, AWS, Azure

## EXPERIENCE

**Orange County Cyber Innovation Clinic**

Sept 2025 – Present

*Cybersecurity Student Associate & Offensive Security Analyst*

*Fullerton, CA*

- Leading a team of student fellows in security & IT consulting engagements for small businesses and non-profits in the OC area.
- Operating as a red team member representing the CSUF Center for Cybersecurity in CTF competitions.

**ASSURE-US CSUF**

May 2025 – July 2025

*Data Science Research Student*

*San Francisco, CA*

- Built a secure OCR pipeline that extracted and cleaned 1,200+ legal aid entries from DOJ PDFs, enabling structured, searchable access to sensitive lawyer data deployed on a simple webapp.
- Presented data pipeline architecture and research findings to program stakeholders, demonstrating system security features and search capabilities.

**Cyber Defense and Intelligence Center**

March 2024 – July 2024

*Cyber Threat Intelligence Analyst*

*San Francisco, CA*

- Executed investigations across surface, deep, and dark web in 3 major operations, collaborating within teams of 5+ analysts to gather critical intelligence for law enforcement agencies.
- Utilized OSINT tools to collect and analyze data from complex online environments, contributing to actionable intelligence reports that supported cybercrime prevention efforts.

## PROJECTS

**MyNetRunner Secure Messaging Platform** | *Java, Spring Boot, PostgreSQL, React*

Sept 2025 – Dec 2025

- Led a 3-person development team and focused on the backend, architecting a privacy-focused messaging application with real-time WebSocket communication, JWT authentication, and immediate server-side message deletion to eliminate message persistence and prevent server-side tracking.
- Developed RESTful APIs with BCrypt password hashing, input validation, and custom exception handling. Integrated the Signal Protocol for end-to-end encryption and peer-to-peer architecture to achieve complete zero-knowledge design.

**Contracted Enterprise Penetration Test** | *OWASP WSTG, Kali, BurpSuite*

Nov 2025 – Dec 2025

- Led full penetration testing engagement from stakeholder scoping interviews through final presentation, assessing a cloud-hosted credential management platform and identifying 6 vulnerabilities across authentication and session management.
- Delivered findings report with CVSS severity ratings and remediation recommendations, translating technical risks into business impact for executive stakeholders.

## RELEVANT COURSEWORK & TRAINING

Cybersecurity Fundamentals & Principles, Object Oriented Programming, Data Structures & Algorithms, Web Security, Databases, Algorithm Engineering, Python Programming, Assembly, Compilers, Operating Systems, Backend Engineering, Google Cybersecurity Certificate, TryHackMe Jr Penetration Tester