# Steven Jessup

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## EXPERIENCE

### Code Ninjas | Center Director
July 2023 – April 2024

- Instructed students in JavaScript, Python, and C#, building foundational coding and problem-solving skills.
- Led Minecraft and Roblox modding clubs, teaching students to build custom features while reinforcing core programming concepts.
- Designed a coding curriculum tailored to varied learning styles, increasing student engagement and comprehension.

### US Navy | Fire Controlman First Class
July 2013 – August 2021

*Commander, Naval Forces Japan*

- Directed mission planning intelligence and communications via Global Command and Control System – Maritime (GCCS-M).
- Collaborated with higher echelons and the Japan Maritime Self-Defense Force to deliver 300+ intelligence products, supporting mission readiness and operational success.

*Surface Development Squadron One*

- Delivered IT support for 1,000+ NMCI accounts, maintaining operational continuity across naval units.
- Resolved high-priority network and hardware issues across 15+ naval units, sustaining 99% system uptime.

*Commander, Seventh Fleet*

- Led a team of 20 personnel in 106 multinational Tomahawk strike missions via the Mission Distribution System (MDS). Achieved the highest assessed tactical proficiency for two consecutive years.
- Maintained classified satellite comms (SHF SATCOM) for 200+ missions, ensuring uninterrupted secure communications.

## PROJECTS

### Natural Language CLI Operating System | *C++, x86, llama.cpp*

- Built a lightweight OS with a custom C++ kernel capable of text and keyboard I/O.
- Implemented a command-line interface (CLI) supporting basic commands through a REPL loop.
- Integrated llama.cpp for local LLM parsing of natural language into structured OS commands.
- Applied modular design principles by separating kernel, drivers, CLI, and LLM components, for maintainability and testability across layers.
- Created a bootable ISO image to run directly on x86 hardware or via emulators.

### IT Ticketing System | *JavaScript, React, Node.js, Express, PostgreSQL*

- Built a full-stack ticketing system for users to submit and track support requests through a React UI and Express API.
- Designed a PostgreSQL schema to store ticket data with fields for title, description, priority, status, and timestamps.
- Integrated secure form handling and real-time ticket creation with client-server communication using RESTful endpoints.
- Developed admin dashboard functionality to view, edit, and delete tickets, with role-based feature separation.
- Implemented data validation and error handling across frontend and backend layers.

## TECHNICAL SKILLS

**Languages**: C++, Python, JavaScript
**Systems:** Linux, Kernel-level development, OS internals (process management, memory, scheduling)
**Tools:** Git/GitHub, CMake, Docker, VirtualBox, Bash
**AI/LLM:** Local model hosting, structured outputs (JSON/GBNF), C++ integration

## EDUCATION

### California State University, East Bay
Expected Graduation: May 2026

*Bachelor of Science in Computer Science*
*Hayward, CA*