

JOHN Y. RODGERS

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EXPERIENCE

Viasat

Software Engineer

San Diego, CA

August 2018 - November 2023

- Ensured compliance with rigorous security standards in cross-virtual machine communications by designing and owning a C++ library that managed **OpenSSL**-secured **DTLS** connections.
- Enhanced fault diagnosis & system reliability with C++ library that created files detailing recent activity from failed **Docker/Kubernetes** containers, enabling more precise troubleshooting and system insights.
- Enhanced alerting and monitoring by developing data publishing microservice that streamed critical data from containers leveraging **gRPC** for transmission, **Fluent Bit** for filtering and enrichment, **Kafka** for publication.
- Significantly reduced application suite build/test times by >3 hours through proposing, planning, and leading a summer intern project focused on process optimization and efficiency in a containerized build environment.
- Boosted team velocity by 25% over three-year tenure as a **Scrum Master** for 8-member development team, all while excelling in my primary role as a developer.
- Accelerated code review completions and development quality by revitalizing processes and training, fostering clear communication, faster issue resolution, and increased team knowledge.
- Lowered dependency on individual expertise by initiating peer education program, conducting needs assessments, mobilizing subject matter experts, and creating a comprehensive video knowledge base.
- **Deployed**, debugged and administered **Linux-based VMs** using **Jenkins** to develop, test, and deploy **Docker/Kubernetes** containers.
- Ensured rapid issue resolution and system reliability through critical **on-call technical support**, demonstrating a deep understanding of system architecture and cross-team product integration.
- Deep intellectual curiosity and passion about learning through **methodical study**, **organized note-taking** using **Zettelkasten** method, systematic reviews using **spaced repetition flashcards**.

Viasat

Software Engineer Intern

San Diego, CA

June 2017 - August 2017

- Collaborated with an interdisciplinary team to consolidate multiple hardware testing tools into a single server rack, automating modem testing processes.
- Created equipment tests using C++, automated tests and reporting of results using **Python**, ensuring seamless communication and compatibility between devices.
- Performed extensive debugging and optimization of the automated system, ensuring robust performance in diverse operational conditions.

United States Navy

Information Systems Technician

2007 - 2012

- Obtained **TS/SCI/NSA Security Clearance**, demonstrating a commitment to stringent security protocols and a proven track record of trustworthiness and reliability in handling classified information.
- Configured, maintained, and monitored ship-wide **local-area network** including **servers**, **firewalls**, **routers**, and **switches**.
- **Supervised** five-member team of diverse backgrounds and life experiences through daily operations by focusing on respect, communication, and motivation.

EDUCATION

University of California San Diego

Jacobs School of Engineering

BS in Computer Science

- Coursework: Object-Oriented Programming; Advanced Data Structures; Theory of Computability; Software Engineering; Computer Architecture; Artificial Intelligence: Search & Reasoning; Computer Operations & Product Engineering
- Organizations: **Vice President** of Student Veterans Organization where I advocated for student veterans and organized events including Raytheon Resume Panel & Networking Event, and Amazon Alexa Hackathon.