

JOHN Y. RODGERS

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EXPERIENCE

Viasat

Software Engineer

San Diego, CA

August 2018 - November 2023

- Developed **C++** library to manage **UDP** and **OpenSSL** secured **DTLS** connections, provided both client/server roles, and **multi-threading** for heartbeat monitoring and packet queuing.
- Served as **Scrum Master** for 8-member development team for 3 years, streamlined project workflows, managed tasks in **JIRA** and collaborated with leaders across teams to drive successful project outcomes.
- Reduced time to build/test application suite by >3 hours through proposing and directing an intern project that implemented modern **CMake** patterns, **Docker** image patterns and upgrading build tools.
- Reduced time to complete **code reviews** by revitalizing processes, empowering developers of all skills to actively contribute/learn from every PR, integrated **GitHub** tools to streamline review process.
- Boosted technical proficiency by starting junior developer skill-up sessions resulting in a knowledge base of **Zettelkasten** and **Diátaxis** based notes populated with **C4**, **Sequence**, and **State** Diagrams.
- Lowered dependency on individual expertise by initiating peer education program, conducting needs assessments, mobilizing subject matter experts, and creating a comprehensive video knowledge base.
- Recovered data from failed **Docker/Kubernetes** containers by creating "black box" files, leveraging multiple threads, **circular buffers**, **IPC**-based communication, and remote **volume store**.
- **Streamed** monitoring/analysis data from **Docker/Kubernetes containers** with multi-client to server log/metric publishing microservice leveraging **gRPC**, **Fluent Bit**, **Kafka**, **Grafana** and **Splunk**.
- Optimized deployment process by regularly **deploying**, **debugging** and **administering** Linux-based VMs used to develop, test, and deploy **Docker/Kubernetes** containers.
- Delivered critical **on-call technical support** ensuring rapid issue resolution and system reliability, demonstrating a deep understanding of system architecture and cross-team product integration.
- Optimized **CMake** build process by developing **Docker/Kubernetes** container synchronizing artifacts stored in Perforce, leveraged **Bash** for scripting, volume mounts for file transfer to host.
- Eliminated **cybersecurity** risks by monitoring vulnerabilities using **Blackduck** and **Security Scorecard**, JIRA tracking of resolution, leading to a perfect security assessment for the project.
- Regularly used complex **regular expressions** for file identification by name and content with tools such as **find**, **ripgrep**, and **ag**, applied techniques for mass text editing in **Vim** and **Obsidian**.

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

- 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