

JOHN Y. RODGERS

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EXPERIENCE

Viasat

Software Engineer

San Diego, CA

August 2018 - November 2023

- 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.
- Optimized deployment process by regularly deploying, debugging and administering **Linux-based VMs** used to develop, test, and deploy Docker/**Kubernetes** containers.
- Designed and implemented **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.
- Regularly used complex **regular expressions** in terminal 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.
- 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.
- Optimized CMake build process by developing Linux-based Docker/Kubernetes container synchronizing artifacts stored in Perforce, leveraged **Bash** for scripting, volume mounts for file transfer to host.
- 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**.
- 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 Linux-based Docker/Kubernetes containers by creating "black box" files, leveraging multiple threads, **circular buffers**, **IPC**-based communication, and remote volume store.
- 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.
- 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.

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