John Y. Rodgers

jyrodgers@protonmail.com · LinkedIn: linkedin.com/in/jyrodgers · GitHub: github.com/jyrodgers · 858-231-4371

Experience

Viasat   San Diego, CA
Software Engineer   August 2018 - November 2023

- Ensured compliance with rigorous security standards in cross-virtual machine communications by designing and owning a **multi-threaded 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.

- Deep intellectual curiosity and passion about learning through **methodical study**, **organized note-taking** using **Zettelkasten** method, systematic reviews using **spaced repetition flashcards**.

- 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 software engineer.

- 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 **Virtual Machine**s 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.

- Streamlined artifact synchronization between legacy **Perforce** and current **Git**/**CMake** build system using dedicated **Docker** container. Implemented **Bash** scripting and **volume mount**s for efficient file transfer.

- Eliminated **cybersecurity** risks by monitoring vulnerabilitites using **Blackduck** and **Security Scorecard**, **JIRA** tracking of resolution, leading to a perfect security assessment for the project.

- Mastered 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   San Diego, CA
Software Engineer Intern   June 2017 - August 2017

- Collaborated with an interdisciplinary team to consolidate multiple hardware testing tools into a single server rack, automating modem testing processes.

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.

- **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.