

JOHN Y. RODGERS

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EXPERIENCE

Viasat

Software Engineer

San Diego, CA

2018 - 2023

- 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.
- Provided real-time data for monitoring and analysis by developing multi-client to server log publishing microservice (Docker / Kubernetes) leveraging gRPC, Fluent Bit, Kafka, Grafana and Splunk.
- Recovered data from failed microservices (Docker / Kubernetes) by creating 'black box' files, leveraging multiple threads, circular buffers, IPC-based communication, and remote volume store.
- Optimized build process by developing file synchronization microservice (Docker / Kubernetes) to integrate artifacts stored in Perforce with CMake build system, leveraged bash for scripting, volume mounts for file transfer to host.
- 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.
- 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 suite of applications by >3 hours through proposing, planning, and directing a summer intern project.
- Decreased time to complete code reviews by revitalizing processes, empowering developers of all skills to actively contribute and learn from every PR, while integrating GitHub tools to streamline review process.
- Lowered dependency on individual expertise by initiating peer education program, conducting needs assessments, mobilizing subject matter experts, and creating a comprehensive video knowledge base.
- Boosted team technical proficiency by initiating weekly junior developer tech skill-up sessions resulting in a comprehensive system knowledge base of Zettelkasten and Diátaxis based notes populated with C4, Sequence, and State Diagrams.
- Eliminated cybersecurity risks by monitoring vulnerabilities using Blackduck and Security Scorecard, JIRA tracking of resolution, leading to a perfect security assessment for the project.

United States Navy

Information Systems Technician

2007 - 2012

- Performed exceptionally well under pressure and time critical situations, including ship-wide catastrophic loss of power while out at sea.
- Supervised five-member team of diverse backgrounds and life experiences through daily operations by focusing on respect, communication, and motivation.
- With only two years of experience, became System Administrator for the ship's local-area network, a responsibility given normally to more senior personnel.
- Configured, maintained, and monitored ship-wide local-area network including servers, firewalls, routers, and switches.

SKILLS

Artifactory | Bash | C++ | CMake | Cap'n Proto | Confd | Consul | Docker | Docker-compose | Fluent bit | GDB | Google Test | Graphana | gRPC | Helm | JIRA | Jenkins | Kubernetes | OpenSSL | Python | Redis | Splunk | Terraform | Valgrind | Vault

EDUCATION

University of California San Diego

Jacobs School of Engineering

BS in Computer Science

2018

- Coursework: Object-Oriented Programming; Advanced Data Structures; Theory of Computability; Software Engineering; Computer Architecture; Artificial Intelligence: Search & Reasoning; Computer Operations & Product Engineering

ORGANIZATIONS

UCSD Student Veterans Organization (SVO)

Vice President

University California San Diego

2016-2018

- Played a key role in orchestrating and executing diverse events including Raytheon Resume Panel & Workshop, Industry Networking Event, and Amazon Alexa Hackathon.