

Griffin Leclerc

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<https://griffinleclerc.github.io>

+1 (603) 540-7703

Technical Skills

Clearance: Secret, US Government Clearance

Languages: Rust, Java, C, C++, Python, Bash, XML, Scala, LaTeX, JSON, HTML, Go, R, JavaScript, Matlab, C#

Software: Git, Jira, Bitbucket, GitLab, Linux, AWS, Jenkins, Cargo, Gradle, Static Analysis, Dynamic Analysis, Virtual Machines, Restful APIs, Docker, CI/CD, Unit Testing, Maven, Ant

Hardware: Embedded Systems, Network Switching, High Performance Computing, Raspberry Pi, Arduino

Network Protocols: NTS, NTP, PTP (IEEE 1588), 802.1Q, 802.1BA, 802.1AS, STP, C37.238, 1722, TLS, TCP/IP, VLAN

Professional Experience, 8 years

General Dynamics Mission Systems (GDMS)

Dedham, MA

Principal Investigator

January 2024 - Present

- Funded to research the safety, security, and performance of deploying Rust in cryptographic environments

Senior Advanced Software Engineer

March 2023 - Present

- Maintained multiple proprietary software image deployment architectures
- Developed supplemental contributions to a shared classified codebase as part of the Core Security Library

University of New Hampshire Interoperability Lab (IOL)

Durham, NH

Lead Software Architect

May 2019 - March 2023

- *Speaker / Author, "Experimental Analysis of the Performance and Scalability of Network Time Security for the Network Time Protocol," IEEE ISPCS (2022)*
- Developed software certification tooling used worldwide by Automotive and Professional Audio industries
- Architected a RESTful Device Under Test remote control interface for streamlined automation
- Made new, significant additions to IEEE 802.1Q, 802.1AS, and C37.238 networking standards
- Collaborated with industry design engineers and standards committees to develop embedded devices

Software Developer

December 2016 - May 2019

- Developed and maintained features of Violet, a Time Sensitive Networking device certification tool
- Performed maintenance on regression tests and automated build scripts
- Assisted with creation of REST implementation for remote control of Violet

Embedded Systems Technician

June 2016 - December 2016

- Performed conformance testing on industry devices and defended subsequent certification reports
- Primary interface for engineers and developers of the Time Sensitive Networking vendor community

Intern

July 2015 - April 2016

- Designed leap second conformance tests and GUI tests for proprietary testing tools

Leadership

University of New Hampshire Interoperability Lab

Durham, NH

Consortium Lead / Agile Scrum Master

May 2019 - March 2023

- Lead a team of five junior developers to regularly release software updates in a timely manner
- Primary vendor contact for Avnu and Open Alliance consortium members
- Managed weekly testing reservations and standups, ensuring product accuracy and delivery commitments

HighTech Bound Summer Internship Program Supervisor

July 2022 - August 2022

- Created and managed a six week network technology immersion program for ambitious student employees

Student Leadership Award, 2018 and 2019

- Mentored, supervised and trained 20 IOL employees and 19 interns over 7 years of employment

UNH Tech Camp Instructor

July 2018 - August 2019

- Mentored 20 UNH Summer Campers in networking protocols, Python scripting, and circuit construction

Eagle Scout, Boy Scouts of America, Troop 292

Hooksett, NH

Education

University of New Hampshire at Durham, NH

M.S. Computer Science, Summa Cum Laude

B.S. Computer Science, Magna Cum Laude