Samuel Heinze

Durham, NH 03824 — (678) 800-9216 — samjheinze@gmail.com — linkedin.com/in/samuel-heinze/

Education

B.A. in Computer Science *August 2021 - May 2025 (Expected)*
University Of New Hampshire, Durham, NH 03824 GPA: 3.29/4.0
Relevant Coursework:

- CS 775 — Database Systems *Spring 2024*

- CS 720 — Systems Programming *Fall 2023*

- CS 712 — Compiler Design *Summer 2023*

- CS 659 — Intro to Theory of Computation *Fall 2023*

- CS 619 — Object-Oriented Design and Development *Spring 2023*

- CS 515 — Data Structures and Algorithms *Spring 2022*

Work Experience

UNH InterOperability Laboratory, Durham, NH 03824
Undergraduate Technician III *April 2023 - Present*

- Lead software developer for Violett Avnu and PTP Violett software test tools

- Lead tester for Precision Time Protocol (PTP) implementations on vendor devices (IEEE 1588, IEEE 802.1AS, others)

- Customer question coordinator

Undergraduate Technician II *November 2022 - April 2023*

- Software developer for all varieties of Violett software

- Independent tester of PTP implementations on vendor devices

Undergraduate Technician I *November 2021 - November 2022*

- Software developer for Violett Avnu software

- Tester of PTP implementations on vendor devices

Pennsylvania Homeschoolers, Kittanning, PA 16201
AP Computer Science TA *August 2021 - May 2022*

- Graded high school level programming assignments implemented in Java

- Ran office hours and answered questions in chat rooms

Skills

- Android Studio, Assembly (Intel x64, NASM), Atlassian Products (Bitbucket, Confluence, Jira, Trello), Bash, C/C++, Git, GitLab, HTML5, IEEE Standards (802.1AE, 802.1AS, 802.1X, 1588), IntelliJ, Java (JNI, JUnit, Kotlin, RMI), Jenkins, JSON, Linux (Fedora, Ubuntu), Makefile, NetBeans, pthreads, Python, RLM, Rust, SSH, Virtual Machines, VS Code, Wireshark

Projects

Regrettably, a lot of my best projects are work or school related, and thus confined to private repos. Despite this, I am more than happy to discuss many of their details and describe my experience in implementing them. If you feel so inclined, please reach out to me and ask about the static linker I made in CS 720, or the eduroam wifi config script I implemented a couple years ago.