

Ryan Bergman

ryberg@ gmail.com | [linkedin.com/in/ryberg/](https://www.linkedin.com/in/ryberg/) | github.com/ryberg/

EDUCATION

University of New Hampshire - Durham, NH

Expected: May 2021

Bachelor of Science: Computer Science

GPA: 3.93

- John H. Smith Scholarship Recipient 2019, Glenice Dearborn Scholarship Recipient 2020
- Dean's List: All semesters

RELATED COURSEWORK

- Introduction to Artificial Intelligence
- Computer Networks
- Programming Language Concepts and Features
- Computer Graphics
- Client-side Web Development

TECHNICAL SKILLS

Programming Languages

C, C#, C++, Go, Java, JavaScript, Python, Rust, TypeScript, VB.NET

Tools and Technologies

Git, CI/CD, React, Vue, 802.11, Wireshark, Agile, Jira/Bitbucket, octoScope, Step Functions, Lambda

RELATED EXPERIENCE

University of New Hampshire InterOperability Laboratory (UNH-IOL)

January 2018 - Present

Lead Software Engineer, Wireless Technologies

- Develop Test Sentinel, a commercially available DSL and 802.11 automated testing tool, in a team of 11 people
- Design a new framework for automating IEEE 802.11 tests
- Lead three junior developers on implementing automated IEEE 802.11 tests
- Gather testing metrics to contribute to the Broadband Forum TR-398 IEEE 802.11 performance testing standard
- Evaluate the performance and conformance of cutting-edge IEEE 802.11 devices
- Communicate with vendor companies to schedule testing reservations and debug vendor devices

Liberty Mutual Insurance

May 2020 – August 2020

TechStart Intern

- Redesigned Liberty Mutual's old payment recognition service by using AWS Step Functions and Lambda
- Reduced the operation cost of the service while maintaining comparable response time
- Presented accomplishments to stakeholders at bi-weekly sprint reviews

RELATED PROJECTS

UNH-IOL: Badge Management System

September 2020 - Present

Full-Stack Developer

- Develop a system to track employees entering and exiting the lab to adhere to COVID-19 guidelines
- Decrease time and resources needed for the lab to retroactively trace COVID-19 exposure
- Utilize Agile project management techniques to guarantee organization

UNH: ET-NavSwarm

October 2017 – October 2019

Vice President

- Developed a particle swarm optimization algorithm on a swarm of 20 autonomous rovers
- Implemented a wireless communication protocol between rovers using XBee modules
- Presented progress to NASA engineers annually at NASA Goddard Space Flight Center

Liberty Mutual Insurance Intern Hackathon: SafeRoute

July 2020

Backend Developer

- Created a webapp that evaluates the safety of routes using open-source accident data
- Implemented A* pathfinding on the backend
- Achieved 2nd place in the hackathon

HOBBIES AND INTERESTS

- **Music:** I enjoy listening to, producing, and playing various types of music including jazz, pop, and rock.
- **Learning languages:** I can speak French and have started learning Vietnamese, Spanish, and Korean.