

Timothy Harrold

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EDUCATION

University of Vermont, Computer Science(B.S.) GPA: 3.73 2021-2022
DIS Copenhagen, Artificial Neural Networks and Deep Learning Program Fall 2022
Rochester Institute of Technology, Computer Science(B.S.), Minor in Music & Technology 2018-2020

SKILLS

- Languages: Golang, Javascript, HTML5/CSS, Java, C, C++, Python, R, SQL, Bash
- Tools: Containerd, Docker, AWS, React, Bootstrap, JQuery, D3, Git, CI/CD Pipelines
- Scrum Based Agile Development
- Technical Writing and Design
- Analysis and Troubleshooting
- Effective Communication and Teamwork

EXPERIENCE

- Amazon Web Services (AWS), Seattle, WA** Software Development Engineer II (December 2024 - Present)
Software Development Engineer (June 2023 - December 2024)
- Maintain and develop code and infrastructure for the core software agent running **ECS Fargate** containerized tasks
 - Designed and implemented features such as [Local Container Restarts](#) and [Image Version Consistency](#) that increase static stability for millions of Fargate tasks
- Software Development Engineer Intern (Summer 2022)
- Worked on the Fargate Dataplane team to design and implement a stress testing suite in **Golang**, to model agent performance for Firecracker instances with **AWS** tools such as **EC2**, **ECR**, **Cloudwatch**, and **CloudFormation**
- University of Vermont, Burlington, VT** Research Assistant (Summer 2021-June 2023)
- Developed an [educational platform](#) with climate change adaptation resources for farmers using **React.js**
 - Implemented Cost-Benefit Analysis calculators and interactive visualizations for adaptation practices
 - Developed a [web platform](#) for nutritional outcomes of food and diet diversity using **R**, **RShiny**, later redesigned in **React.js**, **Bootstrap** and **D3.js** using **Relational Databases** for faster data access
- ReSource, Williston, VT** Computer Technician (January 2021 - November 2021)
- Diagnosed and resolved technical, application, and user issues for hardware and software
 - Refurbished, recycled and upcycled electronics donations per Vermont E-Cycles guidelines
 - Coordinated with AmeriCorps to mentor students and volunteers
- Land Planning Inc, Grafton, MA** Land Surveyor Technician (August 2020 - December 2020)
- Collected and analyzed field data for usage in certified engineering plans and surveys in **AutoCAD**
 - Redesigned and maintained company website with **Wordpress**
 - Created several scripts for file organization and formatted project data from various sources with **Python**
- International Data Corporation, Framingham, MA** IT Help Desk Intern (Summer 2019)
- Diagnosed and resolved technical, application, and user issues for supported hardware and software

TECHNICAL PROJECTS

- Created a chrome extension to help you find recipes faster JS,Chrome
- Developed a web interface for **Last.fm** and **Spotify** music preference visualizations JS, D3, JQuery
- Built a **smart mirror** with refurbished chromebook components Linux
- Developed a presentation of **data-focused insights** on a large set of raw data ASA Datafest 2019