

Sam Moran

(206)-790-4208 : sdhmoran@gmail.com : github.com/sdmoran

Education

Worcester Polytechnic Institute (WPI), Worcester, MA

Bachelor of Science in Computer Science, grad. with High Distinction Aug 2017 – May 2021

Experience

Software Engineer, Microsoft

Aug 2021 – Present

- Developed new Microsoft Ad Exchange features in C# on Azure Service Fabric
- Wrote and tested new frontend and UX features in Typescript for Edge New Tab page
- Implemented server-side and client-side performance metrics to improve ad render time
- Decreased hosting costs by 40% by migrating infrastructure to more efficient servers

Software Engineering Co-op (Secret Clearance), Leidos

Mar 2020 – Aug 2020

- Developed diagnostic applications in Python for use with internal software tools
- Packaged and automated build process for C++ binaries with Conan package manager
- Created Docker images to build and deploy existing applications and dependencies
- Converted C++ applications to Matlab and designed test cases to ensure consistency

Projects

WebTech Committee Chair, Sigma Pi Gamma Iota, WPI

Aug 2020 – Aug 2021

- Led committee of 8 members in development of organization's Django-based website
- Developed new features and fixed issues in Django, Bootstrap CSS and Vue.js
- Cut hosting costs 50% by moving to a new hosting provider
- Overhauled documentation and implemented comprehensive tests with GitHub Actions
- Implemented new build and deployment process and set up demo site for development

smoran.dev, Personal Project, Digitalocean/DEV Hackathon

Sept 2020 – Dec 2020

- Redesigned personal website with Node and Express to showcase previous projects
- Implemented web form with file upload to add projects to external MongoDB database
- Configured AWS S3 bucket to store uploaded images and media resources
- Deployed site to Digitalocean's Application Platform

Recipe App, Webware, WPI

Sept 2020

- Designed Node/Express/Vue/MongoDB application for users to share recipes
- Implemented OAuth2 user authentication with Passport.js using Github strategy
- Hosted Node application on Heroku with database instance on MongoDB cloud

Interactive Qualifying Project, Strætó Bs

Aug 2019 – Oct 2019

- Processed >10,000 records of archived bus arrival and departure data in Python
- Conducted survey of ~1,000 responses, categorized and analyzed responses in Excel
- Synthesized data and proposed improvements to bus schedule to sponsor organization

Languages and Technologies

C#, Python, Java, C, C++, Javascript, Typescript, Go, HTML/CSS, SQL, NoSQL, MongoDB, Bootstrap CSS, Vue.js, Node.js, Express, Django, Apache, Flask, Matlab, AWS(Lambda, EC2, RDS, S3), Azure, Kubernetes, Git, Mercurial, TCP/IP, UDP, Windows, Linux, Bash