

Sam Moran

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Education

Worcester Polytechnic Institute (WPI), Worcester, MA

Bachelor of Science in Computer Science, GPA 3.68 / 4.0

Aug 2017 – May 2021

Relevant Courses: Foundations of Computer Science, Operating Systems, Database Systems, Algorithms, Webware, Machine Learning, Big Data Management, Network Security

Experience

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
- Worked with JIRA and Confluence in an Agile development methodology

WebTech Committee Chair, Sigma Pi Gamma Iota, WPI

Aug 2020 – Present

- Led committee of 8 members and led development of organization's website
- Created, organized, and assigned Trello tickets for features and bug fixes
- Implemented new features and fixed issues in Django, Bootstrap CSS and Vue.js
- Oversaw move to a new hosting provider and created new deployment process

Projects

Recipe App, Webware, WPI

September 2020

- Designed Node/Express/Vue/MongoDB CRUD 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, Iceland

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

Schedule Manager, Software Engineering, WPI

Oct 2018 – Dec 2018

- Built a comprehensive meeting scheduling website alongside three teammates
- Hosted HTML pages on AWS S3 with Java backend and MySQL database
- Wrote 11 distinct HTTP request handlers in Java as AWS Lambda functions
- Achieved 95% code coverage with JUnit testing

Leadership & Awards

WebTech Committee Chair, Sigma Pi Gamma Iota, WPI

August 2020 – Present

Vice President, Men's Ultimate Frisbee, WPI

Nov 2018 – Aug 2020

Dean's List, WPI

Fall 2018, Fall 2019

Secretary, Men's Ultimate Frisbee, WPI

Nov 2017 – Nov 2018

Languages and Technologies

Java, Python, C, C++, SQL, Javascript, HTML/CSS, Bootstrap CSS, Vue.js, Node.js, Express, Django, Apache, Flask, Matlab, AWS(Lambda, EC2, RDS, S3), Git, Mercurial, Windows, Linux, Hadoop, Spark, MapReduce, NoSQL, MongoDB