

# Sam Moran

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## Education

**Worcester Polytechnic Institute (WPI)**, Worcester, MA

Bachelor of Science in Computer Science, GPA 3.64 / 4.0

Aug 2017 – May 2021

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

## 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**, Sigma Pi Gamma Iota, WPI

Aug 2020 – Present

- Oversaw 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
- Worked with fraternity leadership to ease adjustments due to COVID-19

## 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, Flask, Matlab, AWS(Lambda, EC2, RDS, S3), Git, Mercurial, Windows, Linux, Hadoop, Spark, MapReduce, MongoDB