

Sam Lehman

SOFTWARE ENGINEER · WEB DEVELOPER

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Education



The Pennsylvania State University

B.S. IN COMPUTER SCIENCE

- Minor in Mathematics

📍 University Park, Pennsylvania

Aug. 2014 - Present

Experience



THON Technology 2018

THINK DEVELOPER

- Containerized developer environment to facilitate onboarding process for new developers.
- Created data entry forms for students to enroll in various THON events.
- Created REST API for THINK server to communicate with external applications.
- Revamped UI to make THINK webpage responsive across mobile and desktop devices.

📍 State College, Pennsylvania

Sept. 2017 - Apr. 2018

🐳 Docker 🐚 Bash

🐍 Python 🌀 django

🐍 Python 🌀 django 🌀 REST API

📄 HTML5 📄 Bootstrap



General Electric Transportation

SOFTWARE ENGINEERING INTERN

- Built application to compare, diff, and validate options in locomotive configuration files.
- Performed mechanical analysis on wireframe structures and identified failure conditions.
- Created VBA script to generate insights from mechanical analysis data.
- Extended configuration editor CLI to support multiple files and modify user-selected fields.

📍 Erie, Pennsylvania

May. 2017 - Aug. 2017

🐁 C 🐍 Python

📄 VBA 📄 Bash

📄 VBA 📄 Bash

🐁 C



General Electric Transportation

SOFTWARE ENGINEERING INTERN

- Identified causes of locomotive failure by parsing log data.
- Wrote DXL script to batch update locomotive configuration and diagnostic data.
- Implemented single-sign-on functionality in numerous internal tools using OAuth.

📍 Erie, Pennsylvania

May. 2016 - Aug. 2016

🐍 Python

📄 DXL

🔥 Java



FIRST Robotics: RPM 156

LEAD WEB DEVELOPER | SYSTEMS DEVELOPER

- Interfaced with hardware components to sense environment control robot's movement.
- Created autonomous script to perform objectives without user control.

📍 Fairview, Pennsylvania

Jan. 2012 - May 2014

🐁 C

🐍 Python

Projects

2019 **ReactResume**, Creates a single-page app from JSON resume data.

🔑 Node.js 🌀 React 📄 Webpack 📄 Babel

2019 **ReactImageClassifier**, Classifies images using MobileNetV2.

🔑 TensorFlow 🌀 React 📄 Webpack 📄 Babel

2018 **HeyImHungry**, React app and Google Assistant skill to facilitate the donation and pickup of food.

🌀 React 🔑 Node.js 🔥 Firebase

2018 **VRchery**, A-Frame VR web app archery game.

📄 Javascript 🔥 Firebase

2017 **Capstone Project**, Machine learning tools to recognize Penn State logos and decide to accept or reject credit card applications.

🔥 Java 🔥 Flask 🔑 Node.js 🌀 React 📄 Webpack 📄 Babel

2017 **samlehman.me**, Personal website promoting myself.

🔑 Node.js 🌀 React 📄 Webpack 📄 Babel

Skills

Platforms

📄 Web

🔍 Chrome

🖥 Windows

🐧 Linux

🤖 Android

🔑 Flutter SDK

Languages

🐍 Python

📄 Javascript

🔥 Java

🔑 Dart

🐁 C/C++

📄 Visual Basic/VBA

Frontend

🌀 React

📄 Bootstrap

📄 HTML5

📄 CSS

(less) less

🌀 Sass

Backend

🔑 Node.js

🌀 django

🔥 Flask

📄 SQL

🔥 Firebase

🔑 Tensorflow

🌀 REST API

DevOps

🔑 git

📄 Bash

🔥 Docker

📄 Babel

📄 Webpack

🔑 Travis.CI