

Sam Lehman ●🌕

(<https://github.com/IsFilimonov/jsonresume-theme-fullmoon>)

Software Developer



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Sam is a full-stack software developer that creates web applications, backend services, and the infrastructure used to run them. Sam has both a depth and breadth of experience using programming languages, frameworks, and development utilities to build everything necessary to build software and deploy it to end users.

SKILLS

Web Development

Master

HTML | CSS | Javascript | Typescript |
Node.js | React.js | Webpack.js |
Babel.js | Django | Python

Containers

Master

DevOps | Docker | Podman |
containers | infrastructure |
orchestration | deployment

Nix

Master

Nix | NixOS | DevOps |
reproducible builds |
functional programming

Rust

Beginner

Rust | memory-safe | systems

Kubernetes

Beginner

DevOps | containers | infrastructure |
orchestration

Python

Intermediate

Python | Django | data science

Terraform

Beginner

Terraform | DevOps | infrastructure |
infrastructure-as-code

Microsoft Azure

Intermediate

DevOps | cloud computing | OAuth2 |
directory server

WORK EXPERIENCE

Systems Administrator at [Presque Isle Wine Cellars](https://piwine.com) (<https://piwine.com>)

Aug 2021 - Nov 2023

North East, PA

Responsible for administration of servers and all user workstations for the entire company.

- Migrated local domain controller to Azure cloud.
- Migrated local servers to container-based infrastructure.
- Migrated local databases to cloud-based PostgreSQL instance.
- Managed virtual machines running company infrastructure.
- Managed DNS server & configured records to improve security, routing behavior, and standards compliance
- Deployed internal company mesh VPN to secure company infrastructure in remote & hybrid work environments.
- Enhanced mail server security by configuring DMARC, DKIM, & SPF DNS records.

Software Engineering Intern at [Brazen](https://brazenconnect.com) (<https://brazenconnect.com>)

Feb 2020 - May 2020

Arlington, VA

Developed features for video conferencing platform & chatbots for automated candidate onboarding.

- Wrote Java code with Tensorflow API to integrate chatbot NLP agents with custom business logic.
- Wrote frontend & backend code in Java for video conferencing web platform.

Electrical Integration - Software Engineering Intern at [General Electric: Transportation \(https://ge.com\)](https://ge.com)

Jun 2018 - Sep 2018

Lawrence Park, PA

GE Transportation (now Wabtec) is a global leader in locomotive manufacturing.

- Wrote C program to validate configurations to control locomotive hardware.
- Wrote Python program to analyze locomotive schematics for possible points of failure.
- Wrote Visual Basic for Applications (VBA) code to integrate Python & C programs with Excel spreadsheets used by engineers.

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PROJECTS

Meehive (<https://github.com/Lehmanator/meehive>) at

Skills acquired: Kubernetes | Helm | Nix | NixOS | DevOps | CI / CD | deployment | infrastructure-as-code

Personal Nix configurations for personal computing devices & cluster infrastructure.

- Declarative configurations representing both personal workstations and server infrastructure.
- Encrypted secret management with sops.
- Deployment of configurations via SSH.
- Running many self-hosted server applications in Kubernetes

resume.nix (<https://resume.samlehman.dev>) at Sam Lehman as Team lead, Designer

Jan 2024 - Current

Skills acquired: Nix | GitHub | GitHub Pages | GitHub Actions | DevOps | Node.js | static site | reproducible builds | declarative | CI / CD

Nix flake project to build & deploy my personal resume using jsonresume.

- Reproducible environment that pulls all dependencies to build a static webpage for my resume.
- Automatic deployment using GitHub Actions and GitHub Pages.
- Development shell with automatic installations of dependencies needed to hack on, build, and deploy my resume.

HeyImHungry (<https://github.com/Lehmanator/HeyImHungry>) at

Skills acquired: React | Javascript | Google Assistant | Google Cloud | Firebase

Service to connect those with excess or soon-to-expire food with those in need.

- React & React Native frontend.
- Google Assistant interface to query and add listings.

EDUCATION

in Computer Science at Penn State University

Aug 2014 - May 2019

Major courses: CMPSC121 - | CMPSC122 - | CMPSC221 - | CMPSC360 - Discrete Mathematics | CMPSC461 - | CMPSC465 - Algorithms & Data Structures

VOLUNTEER

Captain at THON Technology

Sep 2018 - Apr 2019

THON is a student-run non-profit organization raising money for pediatric cancer research and the children affected by it. The THON Technology committee develops software to facilitate volunteer work and manage the annual dance marathon event.

- Containerized developer environment to speed up onboarding new volunteer developers.
- Containerized production webserver to make production environment reproducible.
- Used Python & Django to create informational webpages to update volunteers on latest events & news.
- Used Python & Django to create forms to collect and process information from volunteers.

PUBLICATIONS

Hello World - Blog in Sam Lehman - Blog

10 Feb 2024

First post to my self-hosted blog!

LANGUAGES

English

Native speaker

Spanish

Basic

Mandarin

Basic

INTERESTS

Home Automation

Skills acquired: Home Assistant |
ESPHome | Self-Hosting | Raspberry Pi |
ESP32 | Microcontrollers | Circuitry

Wrestling

Skills acquired: Sports | Martial Arts |
Fitness | Athletics | Competition

Weight Lifting

Skills acquired: Fitness | Athletics |
Health

REFERENCES

“ It's my pleasure to recommend Sam. He single-handedly moved our business IT into the 21st century. Any company would be lucky to have him. ”

Lauri Lewis