

# Sam Lehman

## System Administrator

Reading, Pennsylvania US

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git [Lehmanator \(https://codeberg.org/Lehmanator\)](https://codeberg.org/Lehmanator)

🐙 [Lehmanator \(https://github.com/Lehmanator\)](https://github.com/Lehmanator)

📧 [Lehmanator \(https://fosstodon.org/@Lehmanator\)](https://fosstodon.org/@Lehmanator)



Sam is a system administrator that deploys & manages workstations & infrastructure running a wide array of operating systems and software services. Sam has a depth & breadth of experience using programming languages, shell scripting, & declarative code for managing, running, and deploying servers & workstations.

### SKILLS

#### Operating Systems

Windows | MacOS | Linux | Android |  
iOS | NixOS | Arch Linux | Debian

#### Nix

Nix | NixOS | reproducible builds |  
functional programming | immutability

#### Microsoft Azure

Directory servers | Domain controllers |  
Cloud computing | Cloud VMs |  
Office 365 | OAuth2

#### Scripting

PowerShell | Bash | Zsh | Nushell |  
Python

#### Kubernetes

Helm | Ceph | Flannel | NGINX-Ingress |  
Cert-Manager | Prometheus

#### Web Development

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

#### Deployment

Ansible | Virtual Machines | Terraform |  
GitHub Actions | GitHub Pages |  
Forgejo Actions

#### Containers

Podman | Docker | Docker Compose |  
OCI | Container registries

#### Remote Management

SSH | RDP | VNC | journald |  
Group Policy Objects |  
Wireguard tunnels | Tailscale

### WORK EXPERIENCE

Aug 2021 - Nov 2023

**System Administrator** at Presque Isle Wine Cellars

📍 North East, PA 🔗 <https://piwine.com>

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.
- Created Group Policy Objects (GPOs) to push configuration updates to remote Windows workstations.

Feb 2020 - May 2020

**Software Engineering Intern** at Brazen

📍 Arlington, VA 🔗 <https://brazenconnect.com>

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.

Jun 2018 - Sep 2018

**Electrical Integration - Software Engineering Intern** at General Electric: Transportation

📍 **Lawrence Park, PA** [🔗 https://ge.com](https://ge.com)

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.

Jun 2017 - Sep 2017

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## PROJECTS

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### nix-configs

Mar 2023 - Current

[🔗 https://codeberg.org/Lehmanator/nix-configs](https://codeberg.org/Lehmanator/nix-configs)

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

- 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

Jan 2024 - Current

[🔗 https://resume.samlehman.dev](https://resume.samlehman.dev)

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

- Reproducible environment that pulls locked dependencies to build artifacts for my resume.
- Builds an static webpage and PDF of my resume.
- Automatically deploys successfully built artifacts to GitHub Pages using GitHub Actions.
- Development shell with automatic installations of dependencies needed to hack on, build, and deploy my resume.

### HeyImHungry

Mar 2019 - May 2020

[🔗 https://github.com/Lehmanator/HeyImHungry](https://github.com/Lehmanator/HeyImHungry)

**Skills acquired:** Javascript | Node.js | React.js | Google Assistant | Google Cloud | Firebase

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

## VOLUNTEER

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Sep 2018 - Apr 2019

**Technology Captain** at THON

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.

## EDUCATION

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2014 - Current

**Computer Science** at Penn State University

## LANGUAGES

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### English

Native speaker

### Spanish

Intermediate

## INTERESTS

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### Home Automation

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

### Self-Hosting

**Skills acquired:** Kubernetes | Helm charts | Docker | PostgreSQL | OpenID Connect | OAuth | Networking | DNS | IPv4 | IPv6

### Fitness & Sports

**Skills acquired:** Weight lifting | Wrestling | Martial arts | Health

## REFERENCES

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“ 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**