Sharp Hall
Software Developer
Philadelphia, PA
sharp@sharphall.org

Technical Tools

Python, TypeScript, JavaScript, React, Svelte, SvelteKit, bash, Kubernetes, Argo CD, Terraform, AWS, Google Cloud, PostgreSQL, MySQL, PostGIS, Redis, Django, Django-Ninja, Docker, Prometheus, Grafana, Elasticsearch/OpenSearch, Kafka, GitHub, git

Professional Experience

Owner, Solo Developer, 11/2023 to 2/2024 – Cedar Park Software LLC, Philadelphia, PA

- Designed and Built Release Monitoring Software Milepost

Staff Software Engineer, Backend, 11/2021 to 11/2023 – Runway AI, Inc, NYC (Remote)

- Designed and implemented technical solutions for product features using TypeScript and Python
- Helped to scale Backend team from 2 people to 9
- Introduced and championed SRE culture: observability, service level objectives (SLOs), incident management and postmortems
- Introduced structured logging and reduced costs by excluding irrelevant logs in production
- Improved the design and implementation of work queuing for product requirements
- Developed and maintained realtime inference system using Kubernetes
- Managed machine learning inference capacity during product launches and designed and built a system for dynamic autoscaling based on demand
- Improved product's video encoding, editing, and streaming features with pyav

DevOps Engineer, 3/2018 to 11/2021 – Connectify, Philadelphia, PA

- Maintained servers for company's main product, Speedify VPN
- Ported legacy deployment scripts to Ansible playbooks
- Built monitoring infrastructure for applications and systems using Prometheus, Grafana, Elasticsearch and Logstash
- Automated VPS deployment and teardown using Terraform
- Set up automated build processes and documentation to support web developers
- Wrote internal postmortems after service degradation or outages

Software Engineer, 9/2014 to 3/2018 – Azavea, Philadelphia, PA

- Filled tech-lead role on Cicero product through addition of large spreadsheet-tagging batch processing feature
- Developed "full stack" GIS web applications, including developing deployment process, Django backend, slip-map rendering service, and Javascript/Angular frontend
- Drafted incident reports after outages and service interruptions
- Assisted in interviewing and hiring process for multiple positions

Systems Administrator, 9/2012 to 9/2014 – Penn Law School, Philadelphia, PA

- Administrated Linux, Windows, VMware ESXi, Juniper SRX Firewall, Cisco switches, and other systems
- Established configuration management system for Linux servers
- Transitioned from local infrastructure to AWS and Office 365 cloud infrastructure

Community Leadership

- Treasurer, PhillyCAM Board of Directors, 2021 - Present

Personal Projects

- wheresepta.com – Static serverless web application for tracking SEPTA transit vehicles near you

Education

Guilford College – Greensboro, NC

Bachelor of Art with focus in Photography, Minor in Computing and Information Technology

References

Available on request