

Zack Robinson

<https://robinsonz.me>

z@robinsonz.me | [linkedin.com/in/robinsonz](https://www.linkedin.com/in/robinsonz) | github.com/robinsonz

EXPERIENCE

Software Engineer

Apr. 2024 – Present

Arcesium

New York, NY

- Manage core infrastructure, **supporting 1,000+ devs** with compute, networking, CI/CD, monitoring
- **Rebuilt the cost allocation and chargeback system** used for all Kubernetes spend accounting
- Administer AWS resources and 3,000+ Linux servers using Ansible, Terraform, EC2, GitLab
- Created Sunfish, a new Kubernetes continuous delivery service with web UI, parallelization, & conflict detection; **reduced p99 deploy time by 75%**

Software Engineer Intern

June 2023 – Dec. 2023

Arcesium

New York, NY

- Developed a new web portal for managing developers' cloud virtual machines; **cut workstation-related support queries by 50%**
- Wrote a new microservice for mail egress to enforce internal controls and send delivery status callbacks; **enabled launch of a new customer-facing application**
- Created a reusable library for internal tools' auth frontends (AWS CDK, AWS Lambda, Python, JS)

System Administrator Intern

June 2022 – Aug. 2022

Polaris

Minneapolis, MN

- Designed Ansible best practices appropriate to Polaris's infrastructure landscape
- Automated backup configuration for 200+ development VMs in new cloud environment
- **Won "Innovation Challenge" among 12 intern teams** by proposing new uses for vehicles' software

EDUCATION

Swarthmore College

Aug. 2020 – Dec. 2023

BA, Computer Science (Engineering & English Literature minors)

Swarthmore, PA

GPA: 4.0 (major), 3.9 (overall)

PROJECTS & VOLUNTEER WORK

Swarthmore College Computer Society

Jan. 2021 – Dec. 2023

President

Swarthmore, PA

- **Revived 30-year-old student organization**, growing from 4 to 60+ members
- **Rewrote user management system and documentation CMS** using Typescript, LDAP, Docker
- Oversaw transition to new central server running Proxmox, various Linux VMs, Dockerized services

Slate | *Typescript, React, Tailwind, Electron, Figma*

Sep. 2023 – Dec. 2023

- Ideation, user interviews, prototypes, and a fully-functional Electron app for time-based file organization
- Full process writeup: robinsonz.me/slate

FPGA Video Processing | *Verilog, C*

Sep. 2023 – Dec. 2023

- Independent study implementing video processing and VGA on an FPGA (Verilog, Nios II soft core)
- Full process writeup: robinsonz.me/blog/posts/framebuffer

SKILLS

Languages: Python, TypeScript, Java, Kotlin, HTML/CSS/JS, OCaml, Rust, C, C++, Verilog

Technologies: Kubernetes, AWS, Ansible, Terraform, Kerberos, Prometheus, React.js, Git/GitHub,

Unix/Linux administration, Next.js, Webpack, NoSQL databases, L^AT_EX, Obsidian