

# Zack Robinson

<https://robinsonz.me>

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

## EXPERIENCE

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### Software Engineer

*SpaceX*

Mar. 2025 – Present

*Redmond, WA*

### Software Engineer

*Arcesium*

Apr. 2024 – Mar. 2025

*New York, NY*

- Managed 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
- Administered 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

*Arcesium*

June 2023 – Dec. 2023

*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)

## EDUCATION

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### Swarthmore College

*BA, Computer Science (Engineering & English Literature minors)*

**GPA: 4.0 (major), 3.9 (overall)**

Aug. 2020 – Dec. 2023

*Swarthmore, PA*

## PROJECTS & VOLUNTEER WORK

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### Swarthmore College Computer Society

*President*

Jan. 2021 – Dec. 2023

*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](https://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](https://robinsonz.me/blog/posts/framebuffer)

## SKILLS

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**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<sup>A</sup>T<sub>E</sub>X, Obsidian