# Zack Robinson

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## Experience

**Software Engineer** Apr. 2025 – Present
*SpaceX* *Redmond, WA*

**Software Engineer** Apr. 2024 – Mar. 2025
*Arcesium* *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** 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)

## 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, LaTeX, Obsidian