Zachary Robinson

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INDUSTRY EXPERIENCE

Software and Infrastructure Engineer, *Arcesium*, New York, NY   April 2024–Present

I'm currently working on CI/CD, Kubernetes, and many other things as part of a high-performing team of generalists maintaining and improving Arcesium's most critical systems and infrastructure. I help provide over 1,000 developers with the compute, security, deployment, and networking resources they need to deliver our advanced financial data, operations, and analytics software.

Software Engineer Intern, *Arcesium*, New York, NY   Summer 2023

- Decreased workstation-related support queries by 50% by developing a new web portal for managing developers' cloud-based workstations
- Engineered a new component to filter and control mail egress from Kubernetes
- Created cost analysis tool to allocate and generate summary reports for over $1M in annual spend

System Administrator Intern, *Polaris*, Minneapolis, MN   Summer 2022

- Developed and documented 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 use cases for vehicles' software

Software Engineer Intern, *WeWyll*, remote   Summer 2021

Software Engineer Intern, *Streem*, Portland, OR   Summer 2020

EDUCATION

Swarthmore College, Swarthmore, PA   2020–2024

BA, Computer Science with minors in Engineering & English Literature

GPA: 4.0 (major), 3.9 (overall)

Relevant Coursework: Algorithms, Programming Languages, Compilers, Human-Computer Interaction, Theory of Computation, Computer Architecture, Data Structures & Algorithms, Discrete Math, Linear Algebra

SKILLS AND INTERESTS

- *Computer Languages:* Python, Typescript, HTML/CSS/JS, Java, Kotlin, OCaml, Rust, Bash, PowerShell, C
- *Technologies:* Kubernetes, AWS, Ansible, Terraform, React.js, Git/GitHub, Unix/Linux administration, Next.js, Webpack, NoSQL databases, LaTeX
- *Other Skills:* Project management, writing for various audiences, public speaking & presentations

VOLUNTEER EXPERIENCE

President, *Swarthmore College Computer Society,* Swarthmore, PA   Mar 2021–Dec 2023

- Managed server and software infrastructure to provide online services for 1,600 students
- Organized recruitment, interviews, application review, and onboarding for ~50 prospective members per cycle; expanded club from 4 to 60 members over three years
- Oversaw 8 team leads and 60+ student staff members to facilitate and encourage technical quality, productivity, organization, and hands-on learning organization-wide

Control System Advisor, *FIRST Mid-Atlantic*, Philadelphia, PA area   Mar 2022–Dec 2023

- Help ~30 teams of high school students and their adult mentors debug their robots during competition
- Diagnose a wide variety of software, electrical, and mechanical problems under extreme time pressure

- Write post-event reports summarizing common problems and trends