

Zachary Robinson

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EDUCATION

Swarthmore College, Swarthmore, PA

2020–2023

BA, Computer Science with minors in Engineering & English Literature

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

GPA: 4.0 (major), 3.9 (overall)

SKILLS AND INTERESTS

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

INDUSTRY EXPERIENCE

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

June 2023–Present

- Decreased workstation-related support queries by 50% by developing a new web portal for managing developers' cloud-based workstations, using React.js, AWS Lambda, CloudFront, DynamoDB, and other technologies
- Engineered a new component to filter and control mail egress from Kubernetes, preventing data leakage and reporting delivery status to internal products to increase reliability
- 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 best practices for Ansible usage appropriate to Polaris's infrastructure landscape
- Automated backup configuration for 200+ development VMWare virtual machines in new cloud environment
- Won "Innovation Challenge" among 12 intern teams by proposing new use cases for vehicles' onboard software

Software Engineer Intern, *WeWyll*, remote

Summer 2021

- Developed Express.js and MongoDB backend for new web app
- Created full OpenAPI specification and data model to coordinate with other team members

Software Engineer Intern, *Streem*, Portland, OR

Summer 2020

- Researched dependencies & build processes for open-source libraries and software solutions under consideration
- Wrote test applications using Kotlin, Android, and WebRTC to assist development of a new video backend solution

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 (1,000+ page hits per day)
- Organized recruitment, interviews, application review, and onboarding for ~50 prospective members per cycle
- Oversaw 8 team leads and 60+ student staff members to facilitate and encourage technical quality, productivity, organization, and hands-on learning organization-wide
- Created new home page, account management system, administrator panel, and documentation CMS (sccs.swarthmore.edu) using TypeScript, Express.js, and Docker
- Rewrote server backup system using shell scripts to increase backup speed by 100% for 1.3TB of data

Control System Advisor, *FIRST Mid-Atlantic*, Philadelphia, PA area

Mar 2022–Present

- Help ~30 teams of high school students and their adult mentors debug their robots during each competition
- Diagnose a wide variety of software, electrical, and mechanical problems, often under extreme time pressure
- Write post-event reports summarizing common problems and trends for submission to FIRST Headquarters