Liam Axon

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Work Experience

Software Engineer, Amazon (AWS) *Apr 2022 - May 2023*

- ✦ Wrote, deployed, and updated critical components of AWS Identity Center as part of the AppsAuth team
- ✦ Expanded critical AWS Identity infrastructure to three new global regions
- ✦ On-call: mitigated service outages, acted as the point of contact for our service, and gave sector-wide presentations on our service
- ✦ Primarily worked with Java, Ruby, Python, and Bash code bases

Academic Tutor, Varsity Tutors *Apr 2021 - Jun 2021*

- ✦ Tutored college students online in math and computer science, 1-2 hours per week each

Academic Tutor, Oberlin College *Sep 2018 - May 2020*

- ✦ Tutored more than 15 students in calculus, computer science, and physics, 1-2 hours per week each

Education

Oberlin College, BA in Mathematics *Aug 2017 - May 2021*

- ✦ Highest Honors: GPA 3.9/4.0
- ✦ Minor in computer science

Budapest Semesters in Mathematics, Study-Abroad *Aug 2019 - Dec 2019*

- ✦ Highest Honors: GPA 4.0/4.0

USINDO Summer Studies Program *May 2019 - Aug 2019*

- ✦ Indonesian language and culture immersion program

Projects

Peronal Blog: Locally Infinite

- ✦ Personal blog with 40+ posts exploring math, physics, and chess.
- ✦ Custom site built with React, GatsbyJS. Hosted on Netlify.

Self-Directed Winter Term Project: Computer Graphics Exploration

- ✦ Studied the theory and mathematics of computer graphics
- ✦ Built a ray-tracer in Java, with support for reflections, multiple shapes, and lighting

Awards

1st place, Putnam mathematics competition at Oberlin (4x)
Rebecca Cary Orr Memorial Prize for outstanding achievement in mathematics
John F. Oberlin Scholarship for STEM studies

Skills

Programming Languages: Java, Python, Javascript/Typescript, Bash, HTML/CSS
Technologies: React, GatsbyJS, ThreeJS, Unity, AWS ecosystem including IAM, EC2, Cloudformation
Soft Skills: organized, self-motivated, quick learner, mathmatically minded

Publications

Honors Paper: End Sums of Surfaces

- ✦ Exploration of the topological notion of end-sum, an operation for combining surfaces
- ✦ Presented to mathmatics departments at Oberlin and the University of Wisconsin Milwaukee