

# Devin Lehmacher

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## SUMMARY

Curious, spontaneous, continuously learning software engineer dedicated to writing performant, scalable software that handles errors gracefully. 3+ years of industry experience developing and designing cloud services.

## EDUCATION

### Cornell University

Aug 2015 — May 2019

- Bachelors of Arts in Computer Science
- Cumulative GPA: 3.611

Ithaca, NY

## EXPERIENCE

### SimSpace, *Software Engineer II*

Jun 2021 — Present

Boston, MA (Remote)

- Technical Lead of Team Fourier, responsible for components managing and orchestrating attacks targeting SimSpace's hyperrealistic cyber range platform
- Defining and executing plan to decouple attack functionality from monolithic architecture
- Led team level sprint planning and execution for 1 month of work at a time
- Onboarded 4 new team members, quickly getting them up to speed with unfamiliar technologies
- Brought lack of product vision for automated attacks to management's attention
- Helping define product vision and set priorities for attack platform
- Integrated linters and autoformatters into the build process, reducing noise during code review

### Microsoft, Azure AD, *Software Engineer II*

Aug 2019 — May 2021

Redmond, WA

- Member of Hybrid Authentication Team, which is responsible for critical hybrid Azure AD authentication scenarios servicing >50 million MAU
- Drove an infrastructure redesign, moving to a declarative Kubernetes-like deployment technology
- Coordinated team of 4 through a service's transition to general availability, throughout which we:
  - Improved service availability from 1-2 nines to 4 nines over a 6 month period
  - Quintupled the service's scalability via a database schema redesign and autoscaling
- Improved team efficiency by introducing a kanban board for tracking bugs and tasks, curating the team wiki, and helping define the agenda for observability and reliability monitoring

### Cornell University, *Teaching Assistant*

Feb 2016 — May 2019

Ithaca, NY

- Courses ranging from introductory Object Oriented Programming to Formal Verification
- Taught and mentored students in weekly sections with up to 25 students
- Answered students' questions on Piazza course platform, during office hours, and after class
- Graded and contributed to the development of assignments and exams

### Microsoft, *Software Engineering Intern*

May 2018 — Aug 2018

Redmond, WA

- Designed a microservice architecture for a new cloud service
- Worked with team to determine what the service's critical features are
- Implemented a prototype of the service using Microsoft Service Fabric and Azure

### Itron Inc., *Intern*

Jun 2017 — Aug 2017

Oconee, SC

- Created a dashboard to visualize available space for testing electrical meters
- Utilized Transact-SQL to collect data for the dashboard
- Built and deployed reports to Sharepoint using Microsoft Reporting Services

## PROJECTS

### **Xi Compiler**, compiler for a simple C-like programming language

- Collaborated with a group of 3 other students over the course of a semester
- Implemented parser, type checker, optimizer, and x86 assembly code generation
- Added object oriented features while maintaining backwards compatibility

### **Open Source Contributions**

- Submit pull requests and bug reports, contribute to feature discussions
- Made git credential daemon conform to the XDG directory specification
- Add missing functionality and support for new versions of dependencies to libraries

### **PortOS**, minimal operating system running on a MIPS virtual machine

- Implemented multithreading with preemption and TCP and UDP protocol analogs
- Learned how to navigate and write a moderately sized (10,000 lines) C code base

## SKILLS

Fluent: C#, Swift, Haskell, shell scripting, Git, Vim, (Postgre)SQL, JavaScript  
Familiar: TypeScript, React, C, Kotlin, Java, Azure, Rust, Python, OCaml