

# Devin Lehmacher

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## EDUCATION

**Cornell University**, Ithaca, NY

Aug 2015 — May 2019

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

## CLASSES

Object Oriented Programming and Data Structures • Functional Programming and Data Structures  
Introduction to Compilers & Practicum • Operating Systems & Practicum • Database Systems  
Intro to Analysis of Algorithms • Intro to Theory of Computing • Discrete Structures  
Advanced Programming Languages • Certified Software Systems • Computer System Organization  
Category Theory for Computer Scientists • Constructive Type Theory • Kleene Algebra

## WORK EXPERIENCE

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

Aug 2019 — Present  
Redmond, WA

- Design, prototype, develop, and test new features for service migrating
- Monitor and analyze metrics and logs for service to ensure quality of service
- Debug and implement fixes for issues impacting customers' authentication
- Curate our team wiki, modernizing and contributing guides and documentation
- Coordinated and planned work required for general availability of a cloud service
- Integrated Polly, a C# fault handling library, with an existing cloud service

**Cornell University**, *Teaching Assistant*

Feb 2016 — May 2019  
Ithaca, NY

- Taught weekly sections with 25 students
- Held weekly office hours to help students understand the course material
- Answered students' questions on Piazza, during office hours, and after class
- Helped test, create, and plan future assignments
- Graded assignments and exams, giving students helpful feedback

**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 those features 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**

- Worked with a group of 3 other students to write a compiler in Haskell
- Learned about and implemented lexical, syntactic and semantic analysis
- Added object oriented features while maintaining backwards compatibility

**PortOS**

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

**Open Source**

- Submit pull requests and bug reports, contribute to feature discussions
- Made git credential daemon conform to the XDG directory specification
- Added missing library functions to Haskell libraries

**Interpreters**

- Built interpreters and type checkers for many different languages
- a subset Scheme, System F, Calculus of Constructions, OCaml (a subset of OCaml)
- Wrote a library to abstract common tasks that arose when implementing interpreters

## SKILLS

Fluent: Haskell, C#, shell scripting, Microsoft Azure, git, Vim, Linux

Familiar: C, Java, OCaml, Rust, SQL, Python