Devin Lehmacher

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SUMMARY

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
- Coordinate and plan work required for general availability of a cloud service
- Debugged and implemented fixes for issues impacting customers' authentication
- Integrated Polly, a C# fault handling library, with an existing cloud service
- Curate our team wiki, modernizing and contributing guides and documentation

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 or many different languages
- a subset Scheme, System F, Calculus of Constructions, OCalf (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