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

Software Engineer II at Microsoft in Redmond, WA — Aug 2019 — Present
- Design, prototype, develop, and test new features for a cloud service
- Monitor and analyze metrics and logs for service to ensure service quality
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Teaching Assistant at Cornell University in Ithaca, NY — Feb 2016 — May 2019
- Taught weekly sections with 25 students
- Held weekly office hours to help students understand the course material
- Answered student's questions on Piazza, during office hours, and after class
- Helped test, create, and plan future assignments
- Graded assignments and exams, giving students helpful feedback

Software Engineering Intern at Microsoft in Redmond, WA — May 2018 — Aug 2018
- 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

Intern at Itron Inc. in Oconee, SC — Jun 2017 — Aug 2017
- 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

Heaplib
- Implemented and tested malloc, free, and resize in C
- Learned how to use raw pointers and the trade-offs involved with building an allocator
- Wrote a large number of tests to ensure that pointer arithmetic was correct

SKILLS

Fluent: C#, Haskell, shell scripting, Microsoft Azure, git, Vim, Linux
Familiar: C, Java, OCaml, Rust, SQL, Python