

Devin Lehmacher

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| OBJECTIVE | To obtain a summer internship at Galois, Inc. as a software engineer. | |
| EDUCATION | Cornell University , Ithaca, NY 14853 ▪ Expect to graduate May 2019 ▪ Cumulative GPA: 3.45 ▪ Bachelors of Arts in Computer Science ▪ Bachelors of Arts in Biology | Aug 2015 — Present |
| CLASSES | Functional Programming and Data Structures , CS 3110 ▪ OCaml, functional thinking, constructive real numbers, splay trees, monads Computer System Organization , CS 3410 ▪ Logic gates, MIPS assembly, C, caches, concurrency Object Oriented Programming and Data Structures , CS 2110 ▪ Java, binary trees, linked lists, heaps, and graphs Discrete Structures , CS 2800 ▪ Number theory, graph theory, combinatorics, probability Databases , CS 4320 ▪ SQL, B+ trees, concurrency, recovery, consensus protocols, MapReduce | Spring 2016 Fall 2016 Fall 2015 Spring 2016 Fall 2016 |
| PROJECTS | OCalf Interpreter , CS 3110 ▪ Built an interpreter for a small subset of OCaml ▪ Learned how to evaluate an AST for a functional language using small step semantics heaplib , CS 3410 ▪ Implemented and tested malloc, free, and resize in C ▪ Learned how to use raw pointers and the trade-offs involved with building an allocator MIPS Processor , CS 3410 ▪ Designed a MIPS processor in Logisim and tested it with programs written in assembly ▪ Learned how to decode binary MIPS instructions and how processors execute instructions OCaml Ed , github.com/lehmacdj/ocaml-ed ▪ Implementation of ed, the 1960s line editor, written using OCaml ▪ Learned how to independently design a large project and improved my understanding of OCaml Wikipedia Depth , github.com/lehmacdj/wiki_depth ▪ Implemented a program that traverses Wikipedia to find the first encountered cycle ▪ Learned how to access and parse websites using Haskell Life Simulator , github.com/lehmacdj/simulation ▪ Implemented the Game of Life and multicolor variants using Rust ▪ Learn how to build memory safe code using Rust and generate png images | |
| WORK EXPERIENCE | Teaching Assistant , CS 2110 at Cornell University ▪ Help explain concepts to students ▪ Assist students with assignments ▪ Grade assignments, exams, and finals Research Assistant at Clemson University ▪ Project: MedusaLoop: Protein Loop Modeling Server ▪ Supervisor: Dr. Feng Ding ▪ Research areas: Protein loop modeling | Spring 2016 — Present Jun 2015 — Aug 2016 |
| SKILLS | Programming Languages ▪ Java, OCaml, Haskell, Commandline tools, C, C++, SQL ▪ Ability to learn new programming languages easily • Frequently learn syntax of new languages • Perl, Swift, Rust, Idris, Go, Scheme Languages ▪ English (fluent), German (fluent), Spanish (intermediate) | |