Devin Lehmacher

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EDUCATION

Cornell University, Ithaca, NY 14853 — Aug 2015 — Present

- Expect to graduate May 2019
- Cumulative GPA: 3.45
- Bachelors of Arts in Computer Science
- Bachelors of Arts in Biology

CLASSES

Functional Programming and Data Structures, CS 3110 — Spring 2016

- OCaml: Standard library, Async, Functional programming techniques
- Type theory, propositional logic, constructive real numbers, convex hull problem
- Data Structures: Splay trees, Monads, Modules, Functors
- Language evaluation: wrote an interpreter for a subset of OCaml

Computer System Organization, CS 3410 — Fall 2016

- Digital design using Logisim, MIPS assembly, C
- Processor design: built a fully pipelined MIPS processor instructions
- Memory management: implementation of malloc in C

Object Oriented Programming, CS 2110 — Fall 2015 — Fall 2016

- Java: Standard library, Collection / Stream interfaces, Swing
- Data Structures: Linked Lists, Trees, Heaps, Graphs
- Algorithms: Dijkstra's algorithm, tree / graph traversal

Discrete Structures, CS 2800 — Spring 2016

- Number Theory, Modular Arithmetic, RSA
- Combinatorics, Probability, Graph Theory
- DFAs, NFAs, Regex, Regular Languages
- Proof Systems, Propositional and First Order Logic

PROJECTS

OCaml Ed, github.com/lehmacdj/ocaml-ed

- Implementation of **ed**, the 1960s line editor, written using OCaml
- OCaml Core (Janestreet's alternate standard library for OCaml)

Wikipedia Depth, github.com/lehmacdj/wiki_depth

- Traverses Wikipedia in order to find the first cycle of links found
- Haskell, TagSoup (malformed HTML parser)

Dotfiles, github.com/lehmacdj/.dotfiles

- My extensive, cross platform configuration for the command line environment
- Completely automated installation processes; just clone repository and run install script
- **template** command to add simple boilerplate for new projects new templates

WORK EXPERIENCE

Research Assistant at Clemson University — Jun 2015 — Aug 2016

- Project: MedusaLoop: Protein Loop Modeling Server
- Supervisor: Dr. Feng Ding
- Research areas: Protein loop modeling

Course Assistant, CS 2110 at Cornell — Spring 2016 — Fall 2016

- Help explain concepts to students
- Help students with assignments
- Grade assignments, exams, and final

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, German