# **Devin Lehmacher**

112 Sage Place, Ithaca, NY 14850 djl329@cornell.edu • +1 (864) 722–3014 • github.com/lehmacdj

**OBJECTIVE** 

To obtain a summer internship at Jane Street as a software engineer.

**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

- 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, Re2

# 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

- 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

#### **Course Assistant**, CS 2110 at Cornell

Spring 2016 — Present

- **EXPERIENCE** Help explain concepts to students
  - Assist students with assignments
  - Grade assignments, exams, and finals

# Research Assistant at Clemson University

Jun 2015 — Aug 2016

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

**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