Devin Lehmacher

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OBJECTIVE

To obtain a summer internship at VieSat Inc. 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

Database Systems, CS 4320 — Fall 2016

- SQL, B+ trees, concurrency, recovery, distributed computing, MapReduce

Computer System Organization, CS 3410 — Fall 2016

- Logic gates, MIPS assembly, C, caches, concurrency

Object Oriented Programming and Data Structures, CS 2110 — Fall 2015

- Java, binary trees, linked lists, heaps, and graphs

Functional Programming and Data Structures, CS 3110 — Spring 2016

- OCaml, functional thinking, constructive real numbers, splay trees, monads

Discrete Structures, CS 2800 — Spring 2016

- Number theory, graph theory, combinatorics, probability

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

Dotfiles, github.com/lehmacdj/.dotfiles

- Extensive shell configuration to make the command line an efficient, flexible working environment
- Learned a lot about writing shell scripts and automating command line tasks

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

Life Simulator, github.com/lehmacdj/simulation

- Implemented the Game of Life and multicolor variants using Rust
- Learned how to build memory safe code using Rust and generate png images

WORK EXPERIENCE

Teaching Assistant, CS 2110 at Cornell University — Spring 2016 — Present

- 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

- Command line tools, C, C++, SQL, Java, OCaml, Haskell, Rust, Perl, Swift

Programming Skills

- Linux, data structures, algorithms, unit testing, documentation

Languages

- English (fluent), German (fluent), Spanish (intermediate)