EDUCATION

University of Rochester Rochester

Bachelor of Science in Computer Science, Minors in Optical Engineering and German

Expected May 2017

- GPA: 3.84; Major GPA: 3.97; Rochester Dean's List (6 of 6 semesters)
- LANL Foundation Bronze Scholar Award for Academic Performance, Leadership, Critical Thinking, Career Goals

PROGRAMMING LANGUAGES

Fluent in Java, C, Python, Ruby, CSS, HTML, and Unix shell (bash, csh, etc.). Proficient in Fortran, JavaScript, JQuery, MatLab, and C++. Experience with OCaml, Prolog, Scheme (Lisp), and MySQL. Eager and able to learn new ones.

EMPLOYMENT HISTORY

University of Rochester **Head (Graduate) TA**

Rochester, NY

August 2016 – December 2016

- Head TA for CSC 253 (Dynamic Language & Software Development), usually a graduate student role
- Main contact for a class of ~25 students, with office hours once a week
- Write, post, answer questions about, and grade all assignments

University of Rochester

Rochester, NY

Undergraduate TA

August 2016 – December 2016

- One of 5 undergraduate TAs for CSC 254 (Programming Language Design & Implementation)
- Hold workshops twice a week; Grade lecture quizzes and 2 of the 5 major programming projects

Universität Paderborn

Student Researcher

Paderborn, Germany May 2016 – August 2016

- Did research related to the Multi-Armed Bandit reinforcement learning problem
- Considered the special case of aggregate bandits, and created simulations to test algorithm performance on this case

Laboratory for Laser Energetics (University of Rochester)

Rochester, NY

Student Developer

February 2016 - May 2016

• Created a remote control panel for an instrument which interacts with the OMEGA laser using Java Swing.

Los Alamos National Laboratory, Computational Physics Division

Los Alamos, NM

Software Development Intern

May 2015 – August 2015

- Sole maintenance developer (bug fixes, improvements, updates) for a Fortran magneto-hydrodynamics code.
- Code was developed in-house and is ~15k lines. Two-thirds is Fortran 77 while the other third is more recent add-ons and improvements using Fortran 90. It outputs data in NetCDF format.

Los Alamos National Laboratory, Earth and Environmental Sciences Division

Los Alamos, NM

Software Development Intern

October 2012 – September 2014

- Created Java Swing tool for visualizing movement of CO₂ plumes. Tool was distributed to several other national laboratories.
- Created similar tool using JavaFX-2 instead of Swing, for comparison.
- Co-authored a paper: Pre-site Characterization Risk Analysis for Commercial-Scale Carbon Sequestration

SOFTWARE PROJECTS

- **Dota 2 Stats (DotaBuff Stats Extension)** Chrome extension built using jQuery (JavaScript), HTML, and CSS. Takes stats from website Dotabuff (which hosts stats for the game DotA 2) and displays them in popup. Published in the Chrome Web Store (also on GitHub).
- **Personal Website** Acts as an all-encompassing online resume, transcript, and cover letter. Built from scratch using HTML and CSS. Coded by me, hosted by GitHub.
- **Java Concurrency** A program which creates the minimum spanning tree and Delaunay triangulation for a set of points which represent a complete graph. I turned the original serial implementation of these algorithms into a parallel implementation.
- **Simple Interpreter** An interpreter for a simple C-like, LL(1) calculator language. The interpreter includes a scanner, parser, and evaluator and uses exception-based error handling while parsing.

VOLUNTEER WORK

2016: Computer Science Undergraduate Council Tutor

2015: Los Alamos Triathlon

2010-13: Jemez Mountain Trail Run