Liam Morris

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EDUCATION

Rochester Institute of Technology — Rochester, NY — September 2010 - May 2015
B.S./M.S. Computer Science
Minors Mathematics, American Sign Language
GPA 3.79, **PFOS** 3.88

AREAS OF INTEREST

Cryptography, Systems Programming, Security, Operating Systems

SKILLS

Programming Languages
Proficient: C/C++, Python, Java, C#
Some Experience: HTML, CSS, JavaScript, SQL, x86/MIPS Assembly, Scheme, Prolog

Tools/Software
Microsoft Windows, Linux, Vim, Git, Perforce, Eclipse, LaTeX

Languages
American Sign Language, Basic Spanish

EXPERIENCE

Google Inc. — Mountain View, California — Summer 2013
Software Engineering Intern
- Developed methods of improving Ads backend reliability
- Improved Ads backend response time to network errors
- Engineered Ads backend to be resistant against data center outages

Google Inc. — Mountain View, California — Summer 2013
Computer Science Summer Institute Residential Advisor
- Assisted in social and professional development of students
- Fostered a socially-inclusive environment for students
- Hosted technical office hours to assist students with projects

Wegmans Markets Inc. — Rochester, New York — Winter 2012 - Spring 2013
Web Progammer Intern
- Improved and simplified Wegmans job applicant management for Human Resources
- Developed internal web applications using ASP.NET framework

Google Inc. — Mountain View, California — Summer 2012
Engineering Practicum Intern
- Implemented clustering algorithm to run on social networking corpus
- Designed and created tools for analyzing clustering algorithm
- Analyzed and tuned performance characteristics of clustering algorithm

Rochester Institute of Technology — Rochester, New York — 2011 - Present
Student Lab Instructor
- Assisted in teaching Computer Science core classes
- Offered tutoring hours in Computer Science tutoring center

PROJECTS

Cryptography Function Library — Spring 2013
Wrote a utility library that implements various functions and algorithms for use in cryptography covering topics of field arithmetic, modular arithmetic, and discrete logarithm algorithms

Cryptography Algorithm Research — Fall 2012
Implemented a block cipher encryption algorithm in Python and analyzed randomness, performance, and security characteristics of algorithm

Virtual File System — Spring 2012
Designed and implemented a virtual FAT16 file system to interface with machine's actual file system

ACTIVITIES

Computer Science Community — 2011 - Present
Security Practices and Research Student Association — 2011 - Present

HONORS

Dean's List — 2010 - Present
Project Lead The Way Scholarship Recipient — 2010