Matthew Gambogi

Contact

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Education

Rochester Institute of Technology - Rochester, NY — Spring 2017 (Expected)
B.S. Computer Science, Economics

Work Experience

Intuit - San Diego, CA — January - August 2015
Software Engineer Intern — `http://turbotax.intuit.com`
As a member of the TurboTax Data Science team:

- Contributed to design of novel machine learning algorithm.
- Created highly composable DSL for specifying data transformation pipelines. Models could be specified in Python and compiled to Java. Featured guarenteed termination by construction.
- Developed and deployed coninuous integration solution for Python.
- Recieved "Win Together" award for accomplishments.

Janssen Pharmaceutical - Remote — Fall 2014, Fall 2015 - Present
Software Engineer Intern — `http://janssen.com`
Used Haskell and 4store (graph database) to analyze material flow through a pharmaceutical recipie. Part-time.

athenahealth - Boston, MA — Summer 2014
Software Engineer Intern — `http://athenahealth.com`
Member of the Security Development team. Engineered automated cross-site scripting (XSS) vulnerability detection system. Specifically targeted a large Perl web application.

Kaprica Security - Reston, VA — Summer 2013
Software Engineer Intern — `http://kapricasecurity.com`
Developed Python web application using Flask, SQLAlchemy backed by PostgreSQL. Worked on frontend, backend. Also contacted suppliers for potential hardware obfuscation solutions.

SecureIT - Reston, VA — Summer 2012
Cyber Ninja (Research Intern) — `http://secureit.com`
Studied, tested, and developed exploitation and exploit prevention techniques. Worked on DARPA contracts. Tested on an experimental (now patented) Control Flow Integrity system. Investiged a potential side channel attack vector in the Android keyboard process.

Technical Skills

Languages Python, C, Haskell, OCaml, Lisp, Perl, Java, MIPS, HTML/CSS
Tools gdb, git, Perforce, OracleSQL, postgreSQL, VerticaSQL, vim, Eclipse, LaTeX

Personal Projects

CSH Evals
Working with a small team of peers on a Haskell web application and API for automating large portions of the Computer Science House's evaluations process, member database.

Typed Language Evaluator (TyLE)
Toy simply typed lambda calculus interpreter in Haskell. Self-taught type theory, parser combinators.

Extracurricular

Computer Science House (CSH) - — 2012 - Present
Active Member — `https://csh.rit.edu/`
A 40 year old selective student technical organization, emphasizing technical projects and group learning. Elected History Director (Alumni Relations) 2014.