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Experience

Jane Street Capital

New York City, NY — Summer 2016

- Designed and implemented a performance benchmark storage and visualization tool for developers. (OCaml, ElasticSearch, Kibana)
- Created an RPC server and process scheduler to fairly handle concurrent benchmark running by throttling and delegating processes for consistent behavior. (OCaml)
- Prototyped a web proxy service to examine downloads and detect malicious content to filter based on user permissions. (OCaml, C)

AT&T

Dallas, TX — Summer 2015

- Built a tool to automatically partition virtual machines and run scripts remotely through SSH to facilitate end to end testing. (Python)
- Fixed a number of bugs and optimized performance in an application responsible for remotely deploying applications to cloud instances. (Python)
- Created a REST API backend and implemented a number of pages for a web application geared towards helping new employees communicate with mentors. (JavaScript, Node.js, MongoDB)

Oak Ridge National Laboratory

Oak Ridge, TN — Summers 2013, 2014

- Created models of the magnetic fields generated from placing magnetic coils through a particle beam using an algorithm based on the Biot-Savart law. (C++)
- Designed and built a physical model to measure and visualize thermoelectric efficiency of a battery under various real world conditions. (LabView)

Projects

- **Vim Plugin Profiler** – A resource profiler for Vim on Unix systems that analyzes memory and CPU usage of specific plugins and function calls. (Python)
- **Cross-monitor** – Application enabling usage of one mouse and keyboard across multiple computers. (C++, JavaScript)

Education

Vanderbilt University

Nashville, TN — Fall 2013 – Spring 2017

- B.S. Computer Science
- GPA: 3.72

Skills

Programming Languages

OCaml, Python, JavaScript, C++, Java

Software

Vim, Emacs, Git, Mercurial, Unix