Gabriel Intrator

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Education

University of California, Berkeley   graduation 2017
B.S. Electrical Engineering and Computer Science

Work Experience

Salesforce - Software Engineering Intern   2016
- Worked on improving and profiling an internal application on the infrastructure data pipeline. Tracked my work using Agile Methodology. Gave several presentations about my projects to my team. Used Java (Spring, Maven), Python, Docker, Git, Kafka, Graphite.

Los Alamos National Laboratory - Research Intern   2013 & 2014
- Streamlined radio frequency data acquisition and analysis for fast digitizers (2+ GigaSamples/second). Parallelized digital signal processing code to run on a large cluster. Automated the timestamp process for several years of data. Used C, Matlab, MPI Library, and Signal Processing Hardware.

Don Taylor's Photography   2011 - 2013
- Assisted in the day to day operations of the business, as well as customer relations, photo retouching, and general tasks. Used Photoshop daily, built a business site using Wordpress.

Leadership

Delta Upsilon Fraternity - Treasurer, California Chapter   2016
- Elected member of executive committee, responsible for maintaining a budget over 100k.

Technical Skills

Python, Java, C, C++ Javascript, MIPS, Matlab, Git, Linux, Docker, Vagrant
Licensed General Class HAM Radio Operator, callsign KG5EOA

Projects

Beaker, a web framework for building RESTful services. github.com/gintrator/Beaker.
- Based on the Flask framework, supports route declaration, URL variables with types, request redirection, URL building, and other features. Implements the Python WSGI interface.

Ray Tracer, Bezier Surfaces, Inverse Kinematics Solver. Details at intrat.org/graphics.html.

Scheduler, Threading, Synchronization in Pintos.
- Implemented Linux-like thread scheduling, extended synchronization primitives to work with the scheduler, implemented syscalls and POSIX compliant programs.

Chat App. github.com/gintrator/ChatApp.
- Anonymous realtime chatting. Built with Node.js and sockets.io.