

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. Attended Scrum meetings to give frequent updates of my work. Gave several presentations about my projects to my team.

Los Alamos National Laboratory - Undergraduate Student Intern

2013 & 2014

- Streamlined radio frequency data acquisition and analysis for fast digitizers (2+ GigaSamples/second). Parallelized digital signal processing techniques by utilizing the MPI library to run on a large cluster. Automated the timestamp process for several years of data.

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.

Leadership

Treasurer, Delta Upsilon Fraternity, California Chapter

- 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

Ray Tracer, Bezier Surface Rendering, Inverse Kinematics Solver. Details at intrator.us/proj/gfx.

- These projects show several graphics models and techniques.

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. Code at <https://github.com/gintrator/ChatApp>.

- Anonymous realtime chatting. Built with Node.js and sockets.io.

Preamplifier for two channel audio system. Hardware. Details at <http://intrator.us/audio/differential-b1-buffer/>.

- Fabricated custom case and knobs, switchable balanced and single ended inputs, buffered unity gain design, hand wired.