

# Kevin Carlson

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## PROFESSIONAL EXPERIENCE

### OpenTable | San Francisco, CA

July 2016-Present

*Software Engineer – Engineering Technology*

- Design, build, and maintain internal libraries for messaging between OpenTable microservices
- Provide Publish/Subscribe, Send/Receive and Request/Response communication
- Provide context aware tracing and logging of events within the OpenTable platform
- Libraries maintained in .Net/C#, Java, and Node.js

### ViaSat Inc. | Carlsbad, CA

May 2015-Aug 2015

*Software Engineering Intern – Secure Network Systems*

- Design and develop an internal automated network security testing tool for ViaSat Network Engineers
- Harness Metasploit's large and continuously growing library of software security vulnerabilities
- Develop with Python including Tkinter graphical user interface and socket programming

### Lawrence Berkeley National Lab | Berkeley, CA

May 2014-May 2015

*Computing Sciences Student Intern – Computational Research Division*

- Implement massively parallel genetic algorithm framework in C using OpenMP and MPI
- Debug and optimize parallel sparse matrix factorization algorithms for the NERSC computer systems
- Profile and design efficiently scaling algorithms for the BISICLES Antarctic Ice Sheet modeling group

### Los Alamos National Lab | Los Alamos, NM

May 2013-Aug 2013

*Physics Division Student Intern*

- Develop data analysis software in ROOT/C++ for the MiniBooNE neutrino experiment collaboration
- Test and assemble electronic components for the upcoming CAPTAIN neutrino experiment

## EDUCATION

### University of California, Berkeley | Berkeley, CA

Graduation: May 2016

Bachelor of Arts in Computer Science

Computer Science GPA: 3.71

Upsilon Pi Epsilon | C.S. Honor Society

President, Spring 2016

## PERSONAL PROJECTS

### carlsonkevin.com | Personal Website

Website

- Personal webpage containing my resume, blog, photography, and in progress personal projects
- Built with Jekyll and hosted on Github Pages

### Cursify | Spotify Client

CLI Application

- Curses command line client to select and play Spotify music from within a terminal environment
- Built in Python using the curses module and pypotify wrapping for libspotify
- This project is currently on hold with the deprecation of libspotify

## TECHNICAL SKILLS

Languages: Java, C#, Python, C

Frameworks and Tools: NATS, Kafka, Wireshark, Nmap, Metasploit, Git, Tkinter, Curses