Andrew J. Sinclair

52 O'Connor Way
San Luis Obispo, CA 93405
📞 (760) 473-7547
✉ asinclai@calpoly.edu

Education

Fall 2008 - Winter 2014 (expected)
Computer Science B.S./M.S.
California Polytechnic State University, San Luis Obispo, CA
GPA: 3.02

Graduate Coursework:
Computer Networking, Natural Language Processing

Skills

Python	**Proficient**	*Scripting, Natural Language Processing*
C	**Proficient**	*Systems and Network Programming*
Java	**Familiar**	*Developed tool for teachers to autogenerate tests*

Other: Object Oriented, OSI Model, Version Control, Natural Language Toolkit, Click Modular Router

Experience

Summer 2012
Software Engineering Intern *ViaSat Inc.* Carlsbad, CA
- Ported I^{2}C bus arbitration module from VxWorks to Linux by replacing timing and serial communication code
- Developed component for reporting the health of utility cards to a Network Management System

Summer 2011
Software Engineering Intern *ViaSat Inc.* Carlsbad, CA
- Implemented Linux-based router to send traffic from virtual terminals to live network operating center
- Created modules to simulate network traffic impairments such as: restricted bandwidth, increase latency and jitter, and dropped/fragmented packets
- Added functionality to in-house, reusable C library

Projects

SoundCloud Song Ranking by Sentiment Classification of User Comments
- Acquired comments via SoundCloud Python API. Preprocessed malformed comments.
- Combined lexicon, n-gram, and other features to classify the sentiment of user comments
- Validated algorithm in 167 test runs which demonstrated results better than random rank selection

Cisco NetFlow Collector and Visualizer
- Used Python library to generate images of computer networks from NetFlow summaries