

Matt Buland

Contact Information

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Online Presence

<https://github.com/gik0geck0>
<https://bitbucket.org/gik0geck0>

Education

M.S. Colorado School of Mines May 2015 **B.S.** Colorado School of Mines May 2014

- Cum Laude
- GPA: 3.531

Relevant Courses

- Advanced High-Performance Computing (CSCI-580)
- Advanced Computer Architecture (CSCI-564)
- Applications of Algorithms and Data Structures (CSCI-562)
- Computer Networking I/II (CSCI-472/572)
- Information Security and Privacy (CSCI-599B)

Experience

Grad Project, Colorado School of Mines Fall 2014 - current

- Apply edge-centric graph processing principles on a CUDA GPU for in-memory graphs (abandoned for negligible improvement in Feb 2015)
- Utilize min-cut graph partitions with k-Level Asynchronous processing and deferred inter-partition writes for out-of-core GPU processing of huge graphs

Lecturer, Colorado School of Mines Fall 2014 - current

- Lecturer for CSCI-261: Programming Concepts with C++

Intern, Salesforce.com Summer 2014

- Design an application that easily enables customers to have a free-trial signup page
- Create a webservice that integrates between agile management software Trello and GUS

Grader, Colorado School of Mines Fall 2013, Spring 2014

- Web Programming (PHP+HTML)
- Web Applications (Ruby on Rails)

Field Session, Agilent Technologies, Englewood, CO Summer 2013

- Process an image into ATSC waveform
- Generate 8-VSB on 33521B Arbitrary Waveform Generator

Intern, Recondo Technologies, Greenwood Village, CO October 2012 - April 2014

- Reporting Team:
Created reports using Pentaho on a PostgreSQL database
- EDI Team:
Request medical records from payers over HTTPS+SOAP

Intern, LGS Innovations, Westminster, CO May 2011 - August 2012

- Worked in group of 2 in lab with 5+ other interns
- Implemented Android interface to GSM radio via Ethernet, Wi-Fi or Bluetooth
- Implemented HTML5/GWT app to control a Base Station Radio

Technical Skills

Languages: C, CUDA, Python, C++, Haskell, Ruby, Java,

<u>Frameworks:</u>	Rails
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Miscellaneous: Bash, HTML, CSS, PostgreSQL, L^AT_EX, Flex, Bison

Platforms: Linux, OS X