

Brian Newsom

3685 Moorhead Avenue, Boulder, CO 80305

970-412-0347 Brian.Newsom@Colorado.edu

Objective

To apply my software engineering, mathematics, and teamwork experience in a full time position.

Education

University of Colorado

Boulder, CO

B.S. Computer Science—Software Engineering, B.S. Applied Mathematics

Spring 2016

Accolades

- *Winner of national hackathon - HackCU*, finalist in SXSW Music Hackathon Championship
- *GPA: 3.95*, Engineering Dean's List, National Society of Collegiate Scholars

Recent Coursework

CSCI 4448 —Object Oriented Analysis & Design

CSCI 3104—Algorithms

CSCI 4830—Human Centered Big Data

APPM 4660—Intermediate Numerical Analysis II

Technical Skills

Technical Skills: Object Oriented Programming, Hadoop, Git, Message Queues, Functional Programming, SQL, Unix System Administration, SVN

Programming Languages: Java, JavaScript, Scala, C++, Python, Ruby, HTML, PHP, Bash, MATLAB

Work

Software Engineer

Twitter, Boulder

June 2015—Aug. 2015

- Served as a full-time engineer on enterprise agile team to design and build *highly scalable and fault tolerant* real time API in Scala
- Refactored and improved existing Ruby on Rails applications for maintainability
- Optimized engineering effectiveness by creating and revamping deploy tools

Software Engineer

Datalogix, Westminster

June 2014—Sep. 2014

- Worked on *Agile Team* to design *flexible, scalable* data ingestion pipeline in Java
- Paved way to *decrease ingestion time ~10x*
- Ensured quality with unit testing (*JUnit*) and integration testing (*Cucumber*)

Web Developer

University of Colorado, Boulder

Feb. 2015—Present

- Developing front (HTML) and back end (Java) of physics education technology website, supporting translation and scalability - *80 million views per year*

Programming Specialist

University of Colorado, Boulder

Aug. 2013—June 2014

- Contributed to Scientific Python (SciPy) library on GitHub, allowing numerical integration of compiled C from Python, *decreasing run time ~10x*

Personal Projects

GiveHub - Donate To Charity With a Tweet

Apr. 2015

- Node JS application applying Twitter stream API and natural language processing to make donation possible with a tweet to an organization

SetStory.io - Valuate A Music Festival Lineup

Apr. 2015—Present

- Beautiful dynamic lineup builder for festival planners to create the optimal revenue generating event, backed by a multitude of API data

Collaborative Music Creation - Web Application

July 2013—Aug. 2014

- *Taught self* and applied Symfony2 PHP Framework towards *scalable, design consistent* website that allows individuals to make music together

Volunteer Work

Navigators Campus Ministry

Aug. 2012—Present

- *Lead worship* once a week, planning songs and playing drums

Tutor/Mentor

Family Learning Center, Boulder, CO

Feb. 2013—May 2013

- Tutored elementary/high school students in mathematics and other fundamentals