

PRESTON KELLEY

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EDUCATION

Bachelors of Science in Computer Science

Expected May 2019

University of Colorado Boulder

Overall GPA: 4.00/4.00

Minor in Space

Relevant Courses

Algorithms, Operating Systems, Data Structures, Software Development
Methods and Tools, Computer Systems, Linear Algebra

TECHNICAL STRENGTHS

Languages

Python, C++, C, Bash, SQL, HTML/CSS

Tools & Frameworks

Git, Django, Bootstrap, MySQL

OS

Ubuntu Linux, macOS, Windows 7

EXPERIENCE

National Institute of Standards and Technology

January 2016 - Present

Research Assistant

- Worked with CTL scientists and engineers to develop web content that describes their mission and current research projects
- Implemented all of CTLs new and existing web content using Drupal interface and HTML
- Added features to PSCR lab operation's software tools, such as date picker functionality for multiple fields using JavaScript and HTML
- Redesigned entire UI of PSCR's lab tools using HTML and CSS

PROJECTS

Simple C Server PlusPlus - C++

January 2017

- Allows multiple clients to message server using multiprocessing programming
- Designed using basic Socket and TCP/IP programming for sending messages

Twitter Sentiment Analysis - Python, HTML/CSS

September 2016

<http://pkelley.pythonanywhere.com>

- Designed web app that searches a given term on Twitter via the Twitter API and analyzes the recent sentiment of that term
- Applied Naive Bayes Classifier through the NLTK module in Python
- Implemented Django web framework for a responsive application, with an SQLite database
- Intuitive front-end using Bootstrap

Flip Flops Mobile Game - C#, JavaScript, SQL

August - December 2016

- Developed endless runner in Unity with a MySQL database connected to leaderboard web app
- Designed leader-board web app using JavaScript stack (Node.js, Express.js, AngularJS, MySQL)
- Led team of six in semester long project with frequent releases using Agile methodologies
- Applied Object Oriented Design and best practices to code

INVOLVEMENT AND AWARDS

Computer Forge at CU Member

Engineering Differential Merit Scholarship

Deans List - All semesters

AP Scholar with Distinction