

# DONALD BOLES

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Portfolio



LinkedIn



Git Hub

## CAREER OBJECTIVE

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I am a recent, University of Colorado at Boulder, Computer Science major seeking a position that will utilize my educational background and give me an opportunity to contribute to a talented software development team.

## EDUCATION

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**University of Colorado at Boulder****Boulder, Colorado (online campus)**

*Bachelor of Science: Computer Science (December 2019)*

Relevant Courses:

- Algorithms
- Information Visualization
- Discrete Structures
- Computer Systems
- Data Structures
- Introduction to Data Science Algorithms

**Portland State University****Portland, Oregon**

*Bachelor of Science: Psychology (December 2011)*

## PROGRAMMING LANGUAGE SKILLS

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- Python
- C++
- C
- SQL
- HTML/CSS

## SOFTWARE PROGRAMS AND TOOLS

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- Vim
- IntelliJ
- Microsoft Office
- Linux
- Git Hub

## PROJECTS

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**Class Projects**

- Recursive decent parser in Scala similar to JavaScript
  - Receives text as input and parses into a tree structure
- Multiple Data Structures projects (Python and C++)
  - Stacks
  - Queues
  - Hash Tables
  - Balanced Tree Structures (Red black tree)
- Data Science project in Python
  - Used Yelp Dataset (yelps competitive challenge found on yelps website) to infer top user and business characteristics which lead to high reviews for businesses.
- Multi-threading projects in C
  - Used forking to create an application that acts like a shell accepting background and foreground commands
- Virtual Memory project in C simulating paging optimization for predefined program
  - Implemented a predictive LRU to improve hit miss ratio from 15 blocks/compute to .39 blocks/compute