

Brandon Lo

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Education

Oregon State University

Corvallis, OR

B.S. IN COMPUTER SCIENCE (GPA: 3.72/4.00)

Jun 2018

- **Relevant. Courses:** Parallel Programming, Operating Systems, Cloud Software Development, Networks, Algorithms, Databases

Skills

Languages: Python, C++, C

Frameworks/Libraries: Django, Flask, SQLite3, PostgreSQL, MySQL, OpenMP

Other: Git, Travis CI, Ansible, Docker, GCP

Personal Projects

Job Mapping/Tracking App

C, Python, Javascript, PostgreSQL

MULTITHREADED JOB SEARCH APP UTILIZING MULTIPLE LANGUAGES

- Utilized OpenMP and C to quickly call and parse 250k+ requests for job information from 4 job aggregator APIs
- Created an interactive geo-location map and table with Leaflet and Mapbox API
- Used multithreaded sockets to know when to update the Postgres database
- Integrated Travis CI into the build process to prevent production and staging errors

Novel Tracking App

Python, SQLite3

CRUD APP THAT CRAWLS THROUGH WEB PAGES AND EMAILS NOVEL UPDATES

- Used the BeautifulSoup module to crawl through webpages and gather novel information
- Implemented a CLI to allow creating, reading, updating and deleting novels to the SQLite database
- Applied IMAP and SMTP to send novel/database updates to my email

/r/Buildapcsales Bot

Python, SQLite3

BOT THAT TRACK SALES USING THE REDDIT API

- Parsed through /r/buildapcsales and gathered relevant sales posts using the Reddit API
- Created and updated the SQLite database with the deals
- Once parsing is complete, the API was used to send a personal message with all the new deals

Csimple Compiler

C++, x86 Assembly, Python

COLLABORATION PROJECT TO CREATE A COMPILER IN C++

- Led a team of 3 people to successfully complete the compiler
- The compiler takes a C like source language and translates it to linkable x86 ASM target language
- Implemented the scanner, parser, type checker, and code generator of a compiler
- Utilized Python and bash to create a CLI for convenient operation and testing

Work Experience

Database Corporation

SSF, CA

ACCOUNTANT

Jun 2016 - Current

- Filed taxes and other various accounting tasks for over 70 companies using Quickbooks software
- Proposed a switch from paper documentation to digital documentation
- Pushed for more modern accounting practices to reduce the amount of time between client response and accounting feedback
- Ensured the company's workstations were up to date and working

Payroll Easy

SSF, CA

PAYROLL SPECIALIST

Jun 2015 - Dec 2015

- Distributed and processed payroll checks and deposits for over 60 companies using Pensoft software
- Handled all changes to payroll, 401k, new hires, terminations, rate changes, PTO, garnishments, etc.
- Assisted in auditing payrolls and other client issues