Randolph Y. Liang

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EDUCATION

Virginia Tech   Aug 2014 — Present
B.S. in **Computer Science** — Minor in Mathematics
GPA: 3.14 — Deans List Spring 2017

Relevant Coursework: Data Structures and Algorithms, Computer Systems, iOS Mobile Software Development, Cryptography (Symmetric)

EMPLOYMENT

Leidos, Inc. — *Software Engineer Co-Op Intern*   May 2017 — Dec 2017

- Learned branching strategies (Git), team-specific conventions, and agile development practices.
- Spearheaded the development of a virtualized network to automatically setup/deploy VM nodes, developed a configuration server in C#, and integrated a multilingual XMPP Android chat client.
- Developed a Python GUI using TKinter that dumps user input into a JSON file and feeds it to Scrapy spiders to obtain OSM map data from online sources.

PROJECTS

Extensible Shell — *C*
process management for various UNIX commands, job control, and plugin support. Takes line-by-line input from the command line.

Memory Manager — *Java*
Memory management package for storing records of songs/artists from a million-song database that uses a hash table to store handles. Implemented a range query using a 2-3+ tree to retrieve songs written by specific artists.

randyliang.com — *HTML/CSS, JavaScript*
Personal website with miscellaneous information such as résumé, project, etc.

Lyric Bot — *Python*
Twitter bot that scrapes lyrics from the web and tweets them every 30 minutes.

Custom Chipotle Order — *XML, Java*
Android application that relies on user input to determine cost and nutrition for a Chipotle order using local prices/tax rates.

SKILLS

Programming Languages: Java, Python, C, Ruby on Rails, LaTeX
Operating Systems: GNU/Linux (Debian and RPM), macOS