

# Randolph Y. Liang

randy8@vt.edu — (571) 296-6786 — github.com/randy8

**EDUCATION** 

## Virginia Tech

Aug 2014 — Dec 2018

B.S. in Computer Science — Minor in Mathematics

GPA: 3.14

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) and team-specific conventions.
- Spearheaded the development of a mis-attributable network using Vagrant 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**

Proficient: Java, Python, Git, GNU/Linux (Ubuntu), macOS

Familiar: C, C++, Swift, Ruby on Rails, LATEX, Eclipse Wireshark