

ZHONGYANG LIU

11347 Nebraska Ave Apt 206, Los Angeles, CA 90025

☎ (310) 307-6728 · ✉ jerrylzy@ucla.edu · 🌐 github.com/jerrylzy · 💼 linkedin.com/in/jerrylzy

EDUCATION

University of California, Los Angeles

Expected: *Fall 2018*

B.S. Computer Science, B.S. Applied Mathematics

- Overall GPA: 3.97. Major GPA: 3.98. UPE honor society member / tutor.
- Interested in backend, distributed systems, AI, and linguistics.

EXPERIENCE

Microsoft Corporation

June 2017 - September 2017

Software Engineer Intern

San Francisco, CA

- Migrated MileIQ Zendesk app to its latest SDK. Parsed external data to help the customer support team quickly familiarize themselves with users' issues and try to retain them by prioritizing their tickets automatically.
- Used the **Extra-Tree** model to select features and predict user unsubscription rate, which improved *accuracy* on test data to 91%, a significant lift from 77% of the existing model.
- Used a 4-layer neural network to build an email classifier with CNTK where word counts and relative location are used as input. The trained model provides close to 90% *accuracy*, *precision* and *recall* on test data set.
- Hosted a client-server model where the client securely sends customer emails to a Docker-containerized Python `flask` server on Azure Web App and displays the server's prediction to customer support agents.

Symantec Corporation

April 2017 - June 2017

Software Engineer Intern

Culver City, CA

- Worked on Java server backend dealing with both frontend UI and Oracle SQL database.
- Increased *campaign name* size limit and implemented a new search option with an exact SQL query on *campaign IDs* to help the marketing team detail their campaigns and use their legacy ID search tools.
- Designed an API to exclude certain IDs from the database and filter results based on time of creation. It is the cornerstone for a new website that visualizes a chain of campaigns for the marketing team.

Daily Bruin Online, UCLA

September 2016 - April 2017

Web Developer Intern

Los Angeles, CA

- Contributed to a flatpage generator with `React`, `Node.js` and `MongoDB` that helps Daily Bruin editors easily input contents, i.e. header, image, text body, etc., and customize the page layout to generate desired pages.
- Wrote REST procedures to get, store, or delete objects in `MongoDB` obtained from frontend.

PROJECTS

Simpleton Shell

Winter 2017

Operating Systems

Los Angeles, CA

- Light weight shell written in C that accepts commands, arguments and file flags, and prints out programs' output, exit status and arguments with much better user time performance than both `bash` and `dash`.
- Used `open`, `close`, `dup2` to operate on files with various flags; parsed arguments from input with `optind`; used `fork`, `execvp` to run a child process with the desired program and appropriate arguments; used `pipe` to redirect output of one program to another and `waitpid` to get a child's exit status and print it out to the terminal.
- Designed an algorithm to efficiently delete information about child processes after the parent prints out the children's exit status and arguments.

SKILLS

Languages

C/C++, Python, Javascript, Java, MATLAB / Octave, Shell Script

Tools

Git, UNIX/Linux, pandas, numpy, sklearn, CNTK, \LaTeX , Jupyter, flask, GDB