



GINA YANG

CONTACT

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ginayang.me 

EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA

B.S. Computer Science
B.S. Quantitative Biology
Minor in Statistics
GPA: 3.44
Expected grad: May 2021

LANGUAGES

C/C++ Julia
Java JavaScript
Python R

SKILLS/TOOLS

Python data science libs:
PyTorch, Keras, pandas

Databases:
MySQL

Frontend design:
HTML/CSS, Bootstrap,
Swing, jQuery, AJAX

Other:
Node.js, Unix/Linux, AWS,
Git, TCP/IP

EXPERIENCE

JUNIOR SYSTEMS ADMINISTRATOR

Sep 2019 – Present

USC Department of Biology

- Assist systems administrator in troubleshooting and routine maintenance of Windows and UNIX servers and disk arrays
- Monitor and troubleshoot network infrastructure
- Manage sensitive data backup and restoration procedures

RESEARCH DATA ANALYST

Aug 2019 – Present

USC Dvorak-Peck School of Social Work

- Assistant to Dr. Hans Oh, psychiatric epidemiologist and professor of social work
- Perform dataset merging, cleaning, and analysis in **Python** and **R**

SOFTWARE ENGINEERING INTERN

June 2019 – Aug 2019

Southern California Earthquake Center (SCEC), Los Angeles

- Developed seismic hiatus search algorithms and animation features in **Java** for SCEC-VDO (open-source software for visualizing seismic data)
- Used **JavaScript** and **Node.js** to improve the speed of the SCEC-VDO web viewer by 50%
- Redesigned the SCEC-VDO v18.9 user manual and homepage with **HTML/CSS**, **Bootstrap**, and **jQuery** (scecndo.usc.edu)

UNDERGRADUATE RESEARCH ASSISTANT

Jul 2019 – Present

MacLean Lab, USC Quantitative and Computational Biology Group

- We study **stem cell systems biology**, developing mathematical models to better understand cell lineage and communication
- Planning and developing packages in **Julia** for single-cell gene expression analysis and cell communication network inference

PROJECTS

RISK-SC

- A full-stack web app (**Java** backend, **JavaScript** frontend, **MySQL** database) simulating a USC-themed version of the board game Risk

PORTMANTEAU BOT

- A Twitter bot (written in **Python** and using the Twitter API) that formulates a portmanteau (mishmash) of two words tweeted at it