Jerry Lee

Jerrylee1157@gmail.com | 408.513.6711 | linkedin.com/in/jerry-lee1999 | github.com/jerrylee17 | jerrylee99.com

San Jose State University *B.S. Computer Engineering | Cumulative GPA: 3.60* *August 2017 – December 2020*

Skills

Languages

- Python (3 years)
- C++ (3 years)
- Javascript (2 years)
- C
- MySQL
- Java
- C#
- Powershell

Tools

- Git
- Numpy
- Pytest
- Jupyter Notebook
- Flask
- MERN stack
- Remote Procedure Calls
- AWS

Work Experience

Western Digital, Systems Design Engineering Intern, San Jose, CA *June 2020 – August 2020*

- Design and develop new functionalities for a performance modelling library for eSSD used to generate simulations to be presented to over 200 people
- Utilize **Desmod** and **Simpy** libraries to implement simulation termination conditions in an internal **Python** package
- Generate latency plots with **Jupyter Notebook** and create tests using **Pytest**
- Shorten simulation run times saving costs on AWS

Lockheed Martin, Infrastructure Engineering Intern, Sunnyvale, CA *June 2018 – January 2020*

- Enhanced security on **Linux** and **Windows** workstations by developing **Powershell** scripts to use the **STIG** process
- Configured switches and access points to meet company standards and repaired networking issues
- Executed stress tests on an **AWS** hosted **VM** to withstand resource, state, and network attacks by using Gremlin

Projects

SCE Core-v4 Printing page *December 2019 – January 2020*

- Designed and developed the club's printing page, which serves over 300 members with printing resources
- Devised **Travis-ci** script to conduct automatic testing to ensure it conforms with existing functionalities
- Using Google's **ProtoBufs** and **RPC's**, programmed functionality to pass data from **NodeJS** to a python printing process
- Created the user interface with **ReactJS**, stored data in **MongoDB**, and used **ExpressJS** to create endpoints

Blips Casino *March 2020 – May 2020*

- Created a virtual casino for members to use while quarantined
- Animated numerous front-end components, including a slots machine, using **ReactJS** and implemented algorithms for classic casino games with **NodeJS**
- Utilized a relational database as **MySQL** as a backend

Drawing Numbers *November 2019 – December 2019*

- Created web application with simple **neural network** to guess the number a user has drawn on a canvas
- Trained a neural network written in **Numpy** using the MNIST handwritten data set
- Embedded the neural network into a website coded with the Python **Flask** library and deployed on Heroku

Activities / Awards

Development Team Member of Software and Computer Engineering Society (SCE) *August 2019 – December 2019*

Vice President of SCE *December 2019 – May 2020*

Development Team Mentor of SCE *May 2020 – Present*

- Participate in open source projects like Core-v4 using github as a source code repository
- Host workshops such as algorithms and data structures course series to assist peers in their technical skills

Competitive Programming *August 2019 – Present*

- ICPC: Placed 11th out of 86 teams in the Pacific Northwest Regional Division
- Google Codejam: advanced to Round 1, placing in the top 10% in a pool of over 40 thousand competitors

Dean's scholar *May 2019 – Present*