Jerry Lee

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OBJECTIVE To obtain a challenging software engineering summer internship that will utilize my programming skills.

EDUCATION

B.S. in Computer Engineering, **San Jose State University**, San Jose, CA 08/2017 – 12/2020

- GPA 3.6/4.0
- Dean's Scholar Award
- Relevant courses include Data Structure and Algorithms, Computer Networking, Software Engineering, and Assembly Language Programming, Computer Architecture, Database Systems, Information Security

WORK EXPERIENCE

Intelligent Systems Member, Robotics, **San Jose State University** 09/2019 – Present

- Developing image recognition application to allow rover to autonomously navigate to target locations
- Coding scripts using Python's PIL library to generate and maintain a dataset of several thousand images
- Implementing a Neural Network using TensorFlow to minimize errors in pole recognition

Infrastructure Engineering Intern, **Lockheed Martin**, Sunnyvale, CA 06/2018 – Present

- Enhanced the security on Linux and Windows workstations by developing scripts to use the Security Technical Implementation Guide process
- Configured switches and access points to meet company standards and repaired networking issues
- Executed stress tests on an AWS hosted VM by using Gremlin chaos engineering

PROJECTS

SCE Core-v4 Printing page – *MERN, Python, LPD protocol, Remote Procedure Call* 12/2019 – 01/2020

- 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 conforms with existing functionalities
- Using Google's Protocol Buffers and RPC's, programmed functionality to pass data from NodeJS to a python printing function

Project "BIRB" (Google Hacks) – *DiscordJS, Google Calendar API, Google Scripts* 11/2019

- Minimized difficulty of setting up and organizing events by automatically sending Calendar invites and creating communication channels
- Integrated numerous API's (Google forms, calendar, Discord.JS) using JavaScript and NodeJS

Drawing numbers – *Numpy, Python, Flask, bootstrap* 12/2019

- 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

SKILLS

- Careful documentation of code for future use
- Proficient programming skills in Python, C++, C, MERN stack, Javascript, and Verilog
- Experienced programming skills in Java, C#, x86/ARM assembly, and PowerShell
- Actively participating in hackathons and International Collegiate Programming Contests

ACTIVITIES

Vice President in Software and Computer Engineering Society (SCE) 09/2019 – Present

- Participate in open source projects like Core-v4 using github as a source code repository
- Hosting workshops such as algorithms and data structures course series to assist peers in their technical skills
- Assisted with the development of the SJSU-Dev2 board (firmware)

ICPC Competitive Programming 09/2019 – Present

- Placed 2nd in internal SJSU competition
- Placed 11th out of 86 teams in Pacific Northwest Regional Completion