Shawn Koo

Seeking for **full-time software engineer** position(Starting **June 2021**) or **internship** for **Winter 2021**
Incoming **2021 new graduate** • Based in **Los Angeles, California**

CONTACT INFO

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EDUCATION

UNIVERSITY OF CALIFORNIA SAN DIEGO | BS
MATHEMATICS-COMPUTER SCIENCE
Graduation: June 2021

TECHNICAL SKILLS

Python • Java• C++ • HTML • CSS
Bootstrap • jQuery• JavaScript
Node.js • Swift • Matlab • Haskell
ARM Assembly • C • Git • Linux

COURSEWORK

COMPUTER SCIENCE
Deep Learning
Recommending Systems and Web Mining
Theory of Computability
Design and Analysis of Algorithms
Advanced Data Structures
Computer Organization and Systems
Unix Software and Version Control

MATHEMATICS
Enumerative Combinatorics
Statistical Methods
Intro to Numerical Analysis
Random Walks Algorithms
Intro to Mathematical Software
Graph Theory
Discrete Mathematics
Abstract Algebra

EXTRACURRICULAR

IEEE | ORGANIZATION MEMBER
Project Participant | WI 2020 - Present

DS3 | ORGANIZATION MEMBER
DataHacks 2020 | Feb 8, 2020

PROFESSIONAL EXPERIENCE

NAVSEA | SOFTWARE ENGINEERING INTERN
Automated Control System | Jun 2019 - Aug 2019

- Developed a prototype of an **automated test environment control system** to conduct **Surface Danger Zone Testing** for the **United States Marine Corps**
- Implemented a **wireless** main control program in **Python**, using **multi-thread** and **serial communication** to establish **two-way real time** data transfer
- Built software tools to process conversion and distribution from data streams with **C** and **Python**
- Established **automatic real time calibration** and **real time data relay** between control, target mount and camera mount, using **C** on **micro-controllers**

PROJECT EXPERIENCE

PERSONAL WEBSITE | HTTPS://SJKOO0319.GITHUB.IO
Sep 2020 - October 2020

- **Designed** and **developed** a **responsive** website from scratch, using **html**, **CSS** and **Bootstrap** to display my profile, **photos** of **visual art** and **culinary works**
- Implemented a **vertical navigation bar** that **collapses** to a **horizontal navigation bar** if the website is viewed from a smaller device with **bootstrap**
- **Planned feature, work in progress:** a slide show with photos of my graphite drawings and foods I have cooked, using the **Carousel library** from **JavaScript**

UCSD NEWS APP | CODEPATH - IOS BOOT CAMP
Feb 2019 – May 2019 | Group member

- Was part of a group of three students to develop an **iOS** news **application** to highlight academic achievements of UCSD
- Participated in development of the main function of the application to make **url calls** to fetch news article to be displayed using **Swift**
- Designed the **flow control** of the application and participated in implementing of the **User Interface**

AI GAME ADVISORY | ADVANCED JAVA
Jan 2018 – March 2018 | Project Leader

- Worked on a project as a **leader** of a group of four students to implement a user interactive **AI** game advisor for blackjack
- Designed the main idea of the program, using known **probabilities** in blackjack to result better outcome. Used **Java** to implement the AI recommendation
- Participated in **GUI** development, using the **Java-FX** library along with the group members

ADDITIONAL INFORMATION

- Interim **Confidential** level **security clearance** - **United States government**
- **Bilingual**(fluent in **English** and **Korean**)
- 10 years of experience in **hospitality**, **manufacturing industry** and **retail**
- Amateur **artist** - graphite illustration

EMPLOYER REFERENCE

NAVSEA | STEFAN ENGLERT
Branch Supervisor - NAVSEA Corona Det. Fallbrook (provided upon request)