Howard Shin

(818) 966-5808 | Chatsworth, CA | hojoon0617@gmail.com | [LinkedIn](#) | [Github](#) | [www.howardshin.com](#)

TECHNICAL SKILLS

Python, Java, JavaScript, HTML, CSS, C, C++, MATLAB, Verilog, Django, React, Node.js, MongoDB, Express, Socket.IO, Spring, Discord.py, scikit-learn, Matplotlib, NumPy, pandas, PIC18F, axios, MySQL, NoSQL, jQuery, JSON, API, MTV, MVC, ORM, Regex, Bcrypt, DOM, Git, Github, VS Code, PSpice, AWS Deployment

TECHNICAL PROJECTS

EasyShop | Full-Stack Developer | [GitHub](#)   2020
A Django-based e-commerce website showcasing fluent usage of models and databases.

- ➤ Developed a login/registration system using MySQL, Bcrypt, and Django, allowing multiple users to browse through the website with secure login information
- ➤ Implemented an admin management system by employing Django with MySQL, where the website owners with admin privileges can easily access, manage, and update the database
- ➤ Designed the webpage with proper usage of HTML and CSS, allowing for an informative and concise user experience

AQI-Maps | Full-Stack Developer | [GitHub](#)   2020
A MERN-based project displaying real-time data of air quality index throughout the US.

- ➤ Used React and Google Maps API to organize hundreds of data in an easily comprehensible manner for the user
- ➤ Customized nearly thousand instances of air quality data to efficiently pick out only the necessary information
- ➤ Implemented a secure login and registration system by utilizing Express, MongoDB, and Bcrypt, allowing users to access their personal information safely

InHouseBot | Software Engineer | [GitHub](#)   2019-present
Discord Bot for a gaming server showcasing numerous utilities, using Python and Discord.py library.

- ➤ Built a queue system using a combination of Discord.py library and general Python, that more than 100 users used to organize lobbies of interested players for related games
- ➤ Utilized Google Spreadsheet API to automate record-keeping of players' performance over hundreds of games
- ➤ Developed a simple currency system with extensive usage of Python data structures, where spectators bet on the results of players' games, earn the currency, and "cash-out" for fun benefits within the server

Network Intrusion Detection | Software Engineer | Pomona, CA | [GitHub](#)   2019-2020
A machine learning application used to detect anomalies in network signal.

- ➤ Reorganized network data using Min-Max Scaler from scikit-learn library, normalizing data of over 300,000 entries for more accurate results
- ➤ Built machine-learning models with K-Nearest Neighbor and Naive Bayes algorithms, achieving up to 93% accuracy in recognizing normal vs abnormal network signals
- ➤ Employed matplotlib to create a comprehensible and clear graph displaying different levels of efficiency based on various K values

EDUCATION

Coding Dojo | *Full-Stack Developer Certificate* | Online   2020
- ➤ *Immersive Full-Stack Training Program in HTML, CSS, Python, Java and MERN*

Cal Poly Pomona | *B.S. in Computer Engineering* | Pomona, CA   2014-2020
- ➤ *Relevant Coursework: OOP, Software Engineering, Data Structures, Algorithms*