Howard Shin

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TECHNICAL SKILLS

Python, Java, JavaScript, HTML, CSS, C, C++, MATLAB, Verilog, Django, React, React Native, Node.js, MongoDB, Express, Socket.IO, React Hook, Redux, Material-UI, Spring, 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*