Seunghun Oh

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EDUCATION:

BOSTON UNIVERSITY, Boston MA — Graduated May 2018
Bachelor of Arts, Major in Computer Science
Relevant Coursework: Machine Learning, Artificial Intelligence, Image Video Computing, Software Development, Adv. Cryptography, Network Security, Algorithms, Computer Systems

EXPERIENCE:

Wayfair LLC., Boston MA — May to Sept 2019
Software Engineer
- Developed a React/PHP application facilitating warehouse item search and dimension updates by searching databases via SQL queries and using MVC framework to relay and update changes made by the user.
- Created a React/PHP application which provides users with four new suggestions based upon users' previous preferences, and a SQL database whose data is used to lazy load previous liked history.
- Refactored internal bulk editing tool to eliminate redundancies and improve code readability and testability.
- Designed new SQL database with superiors and implemented new feature on supplier-side tool utilizing React/PHP with Redux to conditionally save admin-made staging requests into the newly-created SQL table.
- Generated and performed PHPUnit and Jest tests for newly written and existing software.

Raytheon, Marlborough MA — Aug 2018 to Mar 2019
Software Engineer
- Implemented alert suppression protocols for military aircrafts flying close to each other that are within respective and distinct specified zones.
- Improved system radar update software by writing code that lowers update priority when changing modes.
- Integrated qualification criteria such as runway eligibility and flight plan checks to prevent arriving flights from overlapping on runways.
- Prepared and performed internal review and quality tests for customers and superiors.

AlzCare Labs, Menlo Park CA — May to August 2017
Software Engineering Intern
- Developed a React Native app that displays an Alzheimer's patients' status and hazards using RESTful architecture. Significantly improved the app's AWS-to-client communication by integrating Socket.IO.

PROJECTS:

SICK Systems Throughput Prediction and Logistics Learning (Python)
- Identified features that may influence optimality of sensor systems by preprocessing data to select features using LDA, then using SVM for 99%+ accuracy between packages' legality of trade and features.

American Sign Language Recognizer using HMMs (Python)
- Generated Gaussian HMM models with CV, BIC, or DIC model selectors paired with SLM data to predict which word the speaker is signing based on features calculated from footage of sign language speakers.

Security Audit of Instagram
- Planned and operated a detailed white-hat passive security audit of Instagram by analyzing usage and management of cookies and network packets. Also performed XSS/CSRF and SQL checks.

Splitr (Obj. C)
- Developed a mobile app for Hack UCSC January 2015 that uses Tesseract OCR to parse items on a photo of a receipt and allows users to assign responsible items' total price to individuals via Venmo requests

SKILLS:

- *Proficiency in*: React, HTML5/CSS, JavaScript, Redux, PHP, SQL, Python, Jest Testing, C, C++, OpenCV, Java, React Native, Git, Agile methods, Linux/UNIX