Allen Cho

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Profile

Entry level Software Developer pursuing Bachelor of Science in Informatics, focused in **Web-Development**. Proficient in Java, Go, C#, and SQL. Past experiences involved Backend, database programming with Java and SQL Database.

Related Skills

Languages   Java, Go, C#, HTML/CSS, JavaScript, SQL, Docker, React
Libraries/OS   Numpy, Pandas, Linux, Mac OSX, Windows
Database/Tools SQL/NoSQL, MySQL, AWS(EC2)

Education

University of Washington, Seattle WA   Sep 2014 – June 2019
Bachelor of Science in Informatics
- **Leadership**: Founder and President of Korean Student Union Basketball Team - 70+ members
- **Course Highlights:** Client/Server-Side Web Development, Data Structure and Algorithm, Advance Database Management Design Maintenance, Software Architecture, Programming Concepts and Tools, Computer Systems

Work Experience

Astronics AES | Full Stack Web Development | Software Development Engineer Intern   June 2018 - Sep 2018
Astronics AES is an industry leading manufacturer of aircraft electrical power systems, including power generation and distribution.
- Designed and developed a section of the company website which collected product testing data.
- Reduced number of steps for the user to retrieve key data by implementing search autocomplete functionality, writing multiple Stored Procedures and AJAX calls, saving staff member time 70% per data search.
- Used REST APIs to expose user queries to Python. Analyzed data from the SQL Server Database and used Bokeh library to produce graphs and visualizations such as Statistical Process Control, Normal Distribution, etc.
- Built a Web API with Flask and embedded the user-interactive graphs back in the ASP.Net web page.

Technologies: C#, Python, HTML/CSS, JavaScript, AJAX, Azure, SQL

Projects

Search-Infrastructure Project | Server-side Web Development | University of Washington   Jan 2018 – Mar 2018
- Built a search-infrastructure which evaluates user input to return relevant content such as statistics of NBA.
- Utilized EC2 and RDS to provide a scalable and cost-efficient relational database structure to manage common database administration tasks.
- Developed a query search which provides users relevant suggestions on every keystroke based on user input.
- Utilized both Web-Role and Worker-Roles simultaneously to develop a web-crawler by saving all indexed information about a web-page in the cloud.

Technologies: C#, PHP, AWS, HTML/CSS, JavaScript, AJAX, Azure, SQL

Web-Charades Project | Server-side Web Development | University of Washington   Sep 2018 – Dec 2018
- Created a website that allows users to play charades over the internet with real time video chat.
- Utilized a microservice to send game status updates to a containerized RabbitMQ message queue, which are then sent to the user through a WebSocket connection.
- Containerized the charade microservice with Golang server to serve random words stored on disk, and track leaderboards in a MySQL database.
- Built a peer to peer communication feature into the game by using WebRTC.

Technologies: Go, AWS, HTML/CSS, JavaScript, AJAX, RabbitMQ, MySQL, WebRTC

Rent.To Project | Android Application Development | University of Washington, Capstone   Jan 2018 – June 2018
- Ideated, designed, and developed an android mobile application that allows users to rent items to and from people in their neighborhood by requesting for rent and using real-time messaging feature.
- Developed the database with features such as authentication, messaging, and a real-time connection to provide live updates on the application any time something changes.

Technologies: Java, Android Studio, Firebase