Hritik Aggarwal

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EDUCATION

University of Washington, Seattle — *B.S. Computer Science, June 2022*

– **GPA**: 3.67/4.0 *(Annual Dean's List)*

– **Relevant Coursework**: Data Structures & Parallelism, Software Design & Implementation, Matrix & Linear Algebra, Full Stack Development, Applications of Computing, Hardware/Software Interface

– **Technical Skills**: JavaScript, Java, React, React Native, Git, HTML, CSS, Firebase, Linux, C++, Android, C#, Lua

WORK EXPERIENCE

Doosan GridTech, Seattle — *Software Development Engineer Intern*

JUNE 2020 - PRESENT

– Working on *Distributed Energy Resource Management System* for creating a smart electric grid system.

– Using architecture techniques like *microservices* & *repository patterns*; **C#** and **.NET** to write algorithms for creating value-efficient system; **Microsoft Azure Cloud Services** for data management**.**

– Automated dispatching, maintaining, and managing of energy stored in different electric grid systems to the required output destination.

MealsTogether (Youth Movement Against Alzheimer's) — *Full Stack Engineer*

APRIL 2020 - JUNE 2020

– Collaborating on a web app to create companionship over virtual meals with new FoodFriends.

– Used **React.js** for Front-end, **Firebase, Node.js** & **Zapier** for data storage and server-side scripting, **Git** for collaboration, and **Zoom API** for video conferencing.

– Enabled people from across the world to find random FoodFriends in this time of isolation and loneliness.

Taskar Center for Accessible Technology, Seattle — *Research Intern*

DEC 2019 - APRIL 2020

– Researched on *Adaptive Gesture Recognition and Classification* to allow people with limited hand motor abilities to control different inputs depending on the device they are using.

– Built a system using **Arduino** and **Java** to allow easy experimentation of different smart gloves based on their raw data, resolution, and degree of freedom.

FutureSoft, Noida — *Full Stack Intern*

JULY 2019 - AUGUST 2019

– Built a tool for Shopify users that removed tedious insertions of product data across multiple stores.

– Used **HTML5**, **CSS3**, & **React JS** to make the dynamic user interface; fetched data from Shopify servers using **PHP cURL** and **REST API**; stored data using **MySQL**.

– Enabled easy management by creating a single enhanced dashboard and catalog editing abilities.

SELECTED PROJECTS

Covid-19 Tracker

JULY 2020 - PRESENT

– Building a mobile app that helps users stay informed about their potential chances of getting Covid-19 based on their proximity and exposure duration with other individuals.

– Using **React Native** to make a mobile app that uses *Bluetooth*, *Wifi P2P*, and *Location Services* to find other devices in your close contact; **Google Firebase** & **Cloud Function** for storing and processing this data.

What's Around, HackIIIT Delhi

AUG 2019

– Created a beta Android app that empowers blind people to locate large objects like empty chairs, desks, and even mobile phones by simply scanning the room with their phone's camera.

– Built on **Android Studio**; used **Java** to monitor phone's gyro and position sensors, and tracked the position of the user anywhere inside the room; **TensorFlow Lite** to identify objects using the phone camera.

LEADERSHIP EXPERIENCE

DubsTech at UW, Seattle — *Lead Web Developer & Mentor*

MAR 2019 - PRESENT

– On-campus tech community that organizes hackathons, tech talks, & workshops on Computer Programming, Web Development, and User Experience.

– Conducted workshops on **HTML5**, **CSS3**, & **JavaScript** and redesigned organization website.