

# Hritik Aggarwal

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## EDUCATION

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

- **GPA:** 3.8/4.0 (*Annual Dean's List*)
- **Relevant Coursework:** Data Structures & Parallelism, Software Design & Implementation, Matrix & Linear Algebra, Full Stack Development, Applications of Computing, Hardware/Software Interface.

## SKILL STACK

- **Languages:** Java, JavaScript, Bash, C#, SQL, C/C++, HTML5, CSS3, Lua.
- **Technologies:** React JS, React Native, .NET, REST APIs, Node JS, Firebase, Microsoft Azure, OpenCV.
- **Soft Skills:** Collaborative, Confident, Innovative, Friendly, Initiator, Curious, Self-motivated.

## WORK EXPERIENCE

**Software Development Engineer Intern** — Doosan GridTech, Seattle

JUNE 2020 - SEPTEMBER 2020

- Worked on *Distributed Energy Resource Management System* for setting up a smart electric grid system.
- Implemented architectural techniques such as *Microservices & Repository Patterns*; **C#** and **.NET** to create a value-efficient algorithm; **Microsoft Azure Cloud Services** for data management and computations.
- Established easy Azure connection and communication with client system; debugged and resolved core issues; implemented linear programming optimizers for increasing system efficiency by more than 25%.

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

APRIL 2020 - JUNE 2020

- Collaborated on web app to form companionship over virtual meals with new intergenerational FoodFriends.
- Used **ReactJS** for dynamic frontend and user interface; **NodeJS**, **REST API**, & **Zapier** for server-side scripting, **Firebase** for storage and cloud service automation; **Git** for code collaboration.
- Enabled over 200 people from across the country to find intergenerational FoodFriends and share their stories in this time of isolation and loneliness.

**Research Intern at TCAT** — Paul G. Allen School for Computer Science & Engineering, Seattle

DECEMBER 2019 - APRIL 2020

- Researched on *Adaptive Gesture Recognition and Classification* to empower people (having limited hand motor abilities) with the ease of configuring the slightest hand gesture to any action or input.
- Successfully built a sensor using **Arduino Uno** and **C/C++** to analyze the raw data, resolution, and degree of freedom for different smart gloves.
- Allowed easy analysis of data in order to choose the most value-efficient smart glove for further research.

## SELECTED PROJECTS

**Founder & Software Developer** — Covid-19 Tracker

JULY 2020 - PRESENT

- Facilitated health officials to implement a customizable Covid-19 contact tracing app in their jurisdiction as an effort to inform users about their potential exposure to the virus.
- Used **React Native** and *Google & Apple's Exposure Notifications System* to develop a mobile app; **Google Firebase & Cloud Function** for processing data and customizing the app.
- Eliminated the need to consume time and other resources on creating a contact tracing app from ground up.

## LEADERSHIP EXPERIENCE

**Founder & Director** — Built@UW Student Organization, Seattle

JULY 2020 - PRESENT

- Introduced a product design and development student organization at the University of Washington to solve real-world problems and create market-ready projects.
- Collaborated with students with diverse backgrounds to lead 2-3 team-based projects per quarter.

**Lead Web Developer & Mentor** — DubsTech Student Organization, Seattle

MARCH 2019 - PRESENT

- On-campus tech community that organizes hackathons, tech talks, and workshops on different topics including Computer Programming, Web Development, and User Experience.
- Conducted workshops and tech talks on elementary and intermediate web development technologies including **HTML5**, **CSS3**, **JavaScript**, and **React JS**.