

Hritik Aggarwal

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EDUCATION

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

- **GPA** - 3.89/4.0
- **Relevant Coursework** - Software Design and Implementation, Data Structures and Parallelism, Matrix & Linear Algebra, Full Stack Development, Applications of Computing, Technical Foundations of Data Sciences
- **Technical Skills** - JavaScript, Java, HTML5, CSS3, Git, React JS, C++, SQL, PHP, Android, R, Bash, Lua

WORK EXPERIENCE

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

DEC 2019 - PRESENT

- Researching with Dr. Anat Caspi on ways to build an open-source tool allowing people with limited motor abilities to change gesture tracking based on their needs using VR/AR gloves.

FutureSoft, Noida — *Full Stack Intern*

JULY 2019 - AUGUST 2019

- Developer 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**; stored data in **MySQL**.
- Enabled easy management by creating a single enhanced dashboard and catalog editing abilities.

SabLab at UW, Seattle — *Research Intern*

JAN 2019 - NOV 2019

- Developed image processing technologies with Dr. Ramkumar Sabesan to capture a nanoscopic image of retinal cells of the human eye.
- Reconfigured an open-source Adaptive Optics specific technology software (**AOSACA**) using **C++**.
- Improved visualization of retinal cell structures and functions.

SELECTED PROJECTS

What's Around, HackIIIT Delhi

AUG 2019

- Created 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.
- Awarded the 2nd Best Hack overall and the Best Accessibility Hack.

Reson8, Hack WA

JAN 2019 - FEB 2019

- Engineered a device that allows people with the inability to speak a means of communication (and even control home-automation) by converting hand gestures to voice output through Amazon Echo Dot.
- Used **Lua** to configure **Myo armband** and control 4 basic gestures, **Firestore** to provide feedback storage, and **Raspberry Pi** kernel to control Amazon Echo Dot.
- Received the Best Hack overall and Best Hack Awards by Microsoft, Cisco, and Amazon at Hack WA '19.

LEADERSHIP EXPERIENCE

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

MAR 2019 - PRESENT

- Tech community on campus that organizes hackathons, tech talks, and workshops on Computer Programming, Web Development, and User Experience.
- Conducted workshops on **HTML5**, **CSS3**, & **JavaScript** and redesigned organization website.