

# Armaan Kara

Full-Stack Web Developer

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## Experience

### Software Engineer @ UBC AgroBot (Navigation Systems Team)

April 2021 - Present // Vancouver, BC

- ▶ Developing self-driving software for a rechargeable 4-wheeled robot to be able to automatically maneuver crops rows, exterminate weeds and deliver precise fertilization
- ▶ Work with the applied principles from computer vision (image denoising, image filtering, Hough Line transform) in Python and OpenCV to make the robot navigate through crop rows
- ▶ Regularly communicate and collaborate with other sub-teams of engineers and designers
- ▶ Currently working on an algorithm to center the robot within the row using on-board cameras

### Freelance Web Developer

May 2021 - Present // Vancouver, BC

- ▶ Contracted Web Developer to design and build custom websites per client specifications
- ▶ Provided consistent updates to the client about the status of the website and delivered the website on time, every time.
- ▶ Multi-page web apps were developed with HTML, CSS, React
- ▶ Hosting was done through Netlify and Google site verification was done to help improve search engine optimization

### Directed Studies Researcher @ UBC Institute for Resources, Environment, and Sustainability

September 2020 - December 2020 // Vancouver, BC

- ▶ This project aimed to promote individual climate actions by creating a smart personalized carbon calculator to empower people in BC to take actions to reduce their carbon footprint
- ▶ Gathered and analyzed data from over 50 individuals and helped educate 70% of them on their carbon intensive activities
- ▶ Created a survey through an expansive literature search, developed an excel spreadsheet for calculations, analyzed Canadian governmental policy data, wrote a paper, and presented my findings
- ▶ Worked directly alongside two professors from the Institute for Resources, Environment, and Sustainability

## Projects

### Portfolio Website

- ▶ Designed, built and deployed my current portfolio website using React, HTML, CSS and Netlify
- ▶ Code has been optimized in various browsers and devices to ensure consistent cross-browser compatibility and mobile responsiveness
- ▶ Has a Google web developers score of 98/100 for page speed

### Rate My Residence (RMR)

- ▶ Currently developing code for UBC's residence so that students can make better informed decisions about their housing accommodations on campus
- ▶ The web app is being built with React, HTML, CSS, Node.js, Express, and MongoDB
- ▶ Tested sites in various browsers and devices to ensure cross-browser compatibility and mobile responsiveness

## Skills

### Programming Languages

JavaScript (ES6), HTML, CSS, Python, R

### Libraries & Frameworks

React, Node.js, Express, Mongoose

### Tools & Platforms

Git, Github, Netlify, Heroku, MongoDB, VSCode, Jupyter Notebooks

## Education

### University of British Columbia (UBC)

2016 - 2021 // Vancouver, BC

Bachelor of Science in Chemistry, Earth and Environmental Science, & Life Sciences

## Extracurriculars

### Writer for Ubysssey student newspaper

Researched, interviewed, wrote, edited and, published an article to the UBC student newspaper that received lots of positive feedback. "[Hundreds of thousands of your fee dollars are sitting in AMS fund reserves](#)"

### UBC BOLT - 24-hours Data Analytics Case Competition

Won 4<sup>th</sup> place overall in UBC's biggest Datathon through leveraging both business consulting analyses and data-centric analysis techniques

### Executive Member of Science Undergraduate Society (SUS) Budget and Grants Team

Helped to manage spending of the \$250,000 SUS budget, by allotting money to clubs, students, events and grants

## Interests

Skiing, weight-lifting, traveling, reading, photography