Ryan Bartruff

Computer Science, University of Washington

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Education

Bachelor's degree **Computer Science**
University of Washington 2015 – 2019
Graduating December 2019, 3.71/4.0 GPA

Experience

Software Intern **FCP Insight**
Jun 2018 – Sep 2018 Greater Seattle Area
Created a dashboard to calculate and visualize sales statistics and provided instant access to construction bids and sales

Improved the performance of the data access via custom caching and bottleneck elimination

Technologies used including Java, SQL, HTML, and CSS

Robotics Instructor **iD Tech Camps**
Jun 2016 – Aug 2017 Palo Alto, California
Designed weekly lesson plans to teach students how to build and program Lego Mindstorm robots.

Lead camp activities with upwards of 100 students, and managed class rooms of 32 students

Projects

Graduate Level Course Robot
Used an open source library to apply edge detection, Hough transforms, and Haar Cascades to identify faces and shapes

Controlled robot movements using coordinate transforms. Used value iteration to solve Markov Decision Processes

Website (rbb2.github.io)
Created a personal website using JavaScript, Bootstrap, HTML, and CSS

UW Campus Map
Created a campus direction map from scratch using a graph implemented as an adjacency list and Dijkstra's algorithm to find the shortest path between 2 locations on campus

Hackathons
iOS app that sends money to charity if you snooze an alarm using Venmo's API

Web-based application that recommends an outfit based on weather conditions and style matching

Courses

Data Structures & Parallelism

Data Visualization

Foundations of Computing I, II

Database Management

Hardware Software Interface

Robotics Graduate Level

Artificial Intelligence **Udacity**

Activities And Awards

Dean's List **2015-2018**

HuskyInnovate 2017 1st place
April 2017

Team Captain and Webmaster for Robotics

Team Captain
for Volleyball and Basketball

Languages

Mandarin Chinese
Working Proficiency

Skills

Java

SQL

Unix