

Ryan Bartruff

Computer Science, University of Washington

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Seattle WA

Education

Bachelor's degree Computer Science

University of Washington 2015 – 2019

Graduating end of Fall 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.

Instructor iD Tech Camps

Jun 2016 – Aug 2017 Palo Alto, California

Managed classrooms full of 32 students

Reviewed Children's performances each week and report them

Design weekly lesson plans to educate children and remain flexible enough to cater towards personal abilities

Lead camp activities with upwards of 100 children from ages 4-11

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

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

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

A 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

Robotics Graduate Level

Artificial Intelligence Udacity

Awards

Dean's List 2015–2018

HuskyInnovate 2017 1st Place
April 2017

Team Captain and Webmaster
– Robotics

Team Captain for Volleyball
and Basketball

Languages

Mandarin Chinese
Working Proficiency

Skills

Java



SQL



Unix

