

TAGGART BONHAM

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taggartbonham.me

github.com/jtbon20

medium.com/@taggartbonham

EXPERIENCE

Magna International Inc. – Corporate R&D

R&D Intern – Menlo Park, CA

Summer 2017

- Developed computer vision algorithms for autonomous indoor navigation and SLAM (Simultaneous Localization and Mapping). Utilized OpenCV and Scikit-learn.

R&D Technical Analyst – At SRI International in Menlo Park, CA

Aug. 2015 – Aug. 2016

- Researched tactile manipulation and computer vision in robotics for manufacturing applications.

Business Development Intern – Troy, MI

Summer 2015

- Evaluated new technologies and companies applicable to automotive industry.

Dartmouth College Computer Science Department

March 2017 – Present

Computer Science Tutor - Further students understanding of course material and programming concepts.

America China Exchange

Summers 2011 – 2014

Teacher and Content Strategist – QiaoQi, Jiangyin, China

- Developed curriculum and taught a classroom of 30+ students at a rural elementary school.
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EDUCATION

Dartmouth College – Hanover, NH

Expected Graduation in 2020

Computer Science Major, Math Minor, GPA 3.80

Machine Learning, Algorithms, Software Design, Full-Stack Web Development, Smartphone Programming, Digital Electronics, Linear Algebra, Statistics, System Dynamics. Third Honors Group (2017-2018).

Menlo School – Atherton, CA

Graduated 2016

GPA 3.97, Distinguished Scholar (2013-2015), Highest Honors (2013-2016).

PROJECTS

Modeling Information Spread through Networks– Python

Investigated the spread of extremist ideas on a social network under censorship and punishment parameters.

WiFi Monitoring Robot– Python, ROS, C++, R

Deadspottr, a robot that monitors and autonomously maps WiFi signal strength in an indoor environment.

FIS Live App– Java

Android application developed for International Ski Federation (FIS) enabling live course validation, reducing the number of needed course-setters. To be deployed during the 2019 Alpine World Ski Championships.

ACTIVITIES

Varsity Sailing - Dartmouth College

August 2016 - Present

- Freshman Captain, Student-Athlete Advisory Council, Athletic Honor Roll (Fall 2016 - Present).

Alpha Chi Alpha Fraternity - Dartmouth College

September 2017 - Present

- Social Chair, Treasurer of Greek Leadership Council – Oversaw funding for the Greek System.

Boy Scouts of America (BSA) – Troop 14 (San Francisco, CA)

January 2009 – August 2016

- Eagle Scout (April 2015)
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TECHNICAL SKILLS

Mandarin, Javascript, Python, C++, React, Node.js, HTML/CSS, R, MongoDB, Java, MATLAB, ROS, VHDL, ArcGIS