BRYCE WALSH
Software Engineer

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EDUCATION

Tufts University, Medford, MA

M.S. in Computer Science (GPA 3.67)   May 2020
  Relevant coursework: *Data Science for Sustainability, Visual Analytics, Ethics for AI/Robotics, Security*

B.S. in Computer Science, Minor in Cognitive and Brain Sciences (GPA 3.55)   May 2019
  Relevant coursework: *Data Structures, Algorithms, Machine Learning, Web Programming, Artificial Intelligence, Computation Theory, Networks, Programming Languages, Machine Structure and Assembly Language*

SKILLS

Languages: Python, C++, SQL, JavaScript, HTML/CSS, Java, C, Swift, C#

Technologies: Linux, Git, Flask, Keras, d3.js, Twilio, Jupyter, Eclipse, Visual Studio, Xcode

EXPERIENCE

Software Engineering Intern - *Hologic* - Marlborough, MA   May 2019 - August 2019
- Wrote 2 prototype web interfaces in HTML/CSS and JavaScript to remotely control stage, focus, and camera settings of a microscope
- Developed server-side code, using Python and Flask, that communicates with microscope via Berkeley sockets
- Augmented pre-existing microscope driver library written in C by extending its capabilities and usability

Artificial Intelligence Teaching Assistant - *Tufts University* - Medford, MA   September 2018 - May 2019
- Reviewed and graded exams on algorithms, AI paradigms, and machine learning techniques for 50-student class
- Assisted students with conceptual understanding and programming projects during weekly office hours

Software Engineering Intern - *Gokhale Method Institute* - Palo Alto, CA   May 2018 - August 2018
- Built iOS application in Swift to assist posture teachers with tracking students' progress
- Tracked user feedback using GitHub Issues to ensure efficient workflow and user-friendly design
- Used GitHub Projects to collaborate with a team of 2 on-site developers and 1 remote developer

Web Development Intern - *Imagemaker* - Santiago, Chile   August 2017 - December 2017
- Overhauled website for Chilean banking association along with Agile team of 5 members
- Implemented site according to design and performance specifications provided by client
- Transitioned site to Sitefinity content management system for ease of use and future customization

PROJECTS

Climate Change Contribution vs. Risk Visualization, *HTML/CSS, JavaScript, and d3.js visualization library*
- Designed and implemented visualization which demonstrates the disparity between top contributors to and top sufferers from climate change, available at bryce-walsh.github.io/Viz_Final_Project/final_viz.html

HTTPS Cache Proxy, *C*
- Engineered cache proxy that supports HTTPS by maintaining two separate TLS/SSL connections: one between proxy and client, and one between client and server

WikiSMS Platform, *Python, Flask, and Twilio SMS service*
- Created platform that enables users lacking internet connections to browse Wikipedia via SMS messages

CAMPUS ENGAGEMENT

Club Ultimate Frisbee Player, Tufts University   September 2015 - February 2020