Bryce Parkman

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Relevant Experience

BUILD UMass   *Amherst, MA*

SOFTWARE DEVELOPER   *Sep. 2019 - Current*

- Collaborating in a six-person team to develop a website for the UMass Amherst organization Student Bridges, which provides easier college access for underrepresented students.
- Volunteering 3 hours a week of programming for the website which will be provided for free to the Student Bridges organization
- Learning project management techniques and working with both software developers and product managers to create the finished project.
- Built with Bootstrap, Express, NodeJS, and Firebase.

College of Information and Computer Science   *Amherst, MA*

UNDERGRADUATE COURSE ASSISTANT   *Dec. 2018 - Current*

- Course assistant for Computer Science 121 - Intro to Problem Solving with Computers at UMass Amherst.
- Helping students in computer science labs with their projects twice a week.
- Assisting TAs and professors with attendance management and project grading.
- Answering questions and comments on online forums.

FRC 4H ALARM Robotics 2079   *Bellingham, MA*

LEAD PROGRAMMER/MENTOR   *Oct. 2017 - Current*

- Programmed functions of the robot using the WPILib FRC library.
- Took initiative as taking role of lead programmer the first year of joining the team.
- Learned teamwork with a diverse team of around 30 people and developed close new important friendships and connections to both students and mentors.
- Competed in local First Robotics Competitions and controlled the robot in a high stress environment.
- Mentoring for the team after graduating high school and assisting the team over the summer.

Projects

Nadine El Nesr Personal Website
https://nadine-elnesr.web.app/

- Commissioned work for a local artist who could not afford making her own website
- Wrote code that has mobile-friendly navigation, robust animations, and self-populating images.
- Built with React, Bootstrap, and Firebase.

MASKerAID
https://devpost.com/software/umass-1

- Competed against over 700 other participants in the MedHack 2020 hackathon virtually hosted by John Hopkins Hospital and placed 3rd place in the Patient Care During a Pandemic Track.
- Prototyped an Arduino device that attaches to a mask filter and warns the user of mask overuse, when to replace the filter, and high air pollution levels.
- Designed a companion app built with React Native that communicates with the device over Bluetooth and receives live updates about the mask
- Collaborated with 3 other UMass students to create this vision in 32 hours

Education

University of Massachusetts Amherst   *Amherst, MA*

CURRENT   *Aug. 2018 - Current*

- B.S. - Double Major in Computer Science and Mathematics - Expected completion May 2022.
- Relevant computer science courses include Programming with Data Structures (Java), Programming Methodology (JavaScript), Computer Systems Principles (C), Artificial Intelligence (Python), Algorithms, and Web Programming.
- Relevant math courses include Multivariable Calculus, Linear Algebra, and Statistics.
- 3.92 GPA.

Skills

Programming Languages: Advanced Proficiency in Java, Python, JavaScript as well as knowledge in C, and C++
Libraries: React, node.js, p5.js, Processing, and Selenium.
Software: Eclipse, VSCode, Arduino, Expo, and Docker
Awards: Received best in Class at the CodeDay Boston 2019 hackathon in a team of four. Recipient of the John and Abigail Adams scholarship.