Roshaan Siddiqui

rsiddiqui@wesleyan.edu │ 773-971-5928 │ RoshaanSiddiqui.com │ LinkedIn Profile │ github.com/Roshaans

EDUCATION

Wesleyan University, Middletown, CT   Expected May 2022
Bachelor of Arts, Major: Computer Science
Relevant Courses: Working with SQL & Databases, Machine Learning (AudioVisual), Sensors Measurement & Data Analysis, Computational Media, Vectors & Matrices, Discrete Mathematics, Algorithms (Fall 2020), and Computer Structures (Fall 2020)

WORK/LEADERSHIP EXPERIENCE

Researcher & Data Analyst, **Delta Lab**, Wesleyan University   October 2019 – Present
- Managed an independent project to categorize and annotate a large database of videos by applying audio fingerprinting techniques to detect advertisement transitions
- Developed a video annotation tool to crowdsource crucial training data from over 5,000 students

Studio Assistant, **Wesleyan University's Makerspace**   September 2019 – Present
- Assisted students with laser cutters, 3D printers, CNC machines, and other power tools in the studio
- Aid students with coursework specific tasks that utilize Arduino Uno & Matlab

Cofounder/VP of Operations, **YouthHack Connecticut**   September 2018 - Present
- Established an organization with a goal to expose underprivileged students to Computer Science
- Piloted a program for high school students to host entrepreneurial workshops and events
- Led coding and app design workshops for high school students

Software Engineer Intern, **MassVr,** Chicago, IL   June 2019 – August 2019
- Worked in close collaboration with two software engineers to design and develop a scalable waiver authentication backend system to help parents electronically sign liability waivers
- Improved efficiency of pre-existing code in main codebase and assisted in beta testing new VR maps

Captain/Lead Programmer/Builder, **FIRST Robotics***, Chicago, IL   June 2012 – April 2018
- Utilized computer vision and various sensors to create robust autonomous programs
- Secured a critical programming award that advanced my team to the FIRST robotics world championship

SELECTED PROJECTS

Facebook Ad Spending Visualization (Angular framework, HTML/CSS, TypeScript)   March 2020
- Developed a visualization tool with a custom built timeline to explore Facebook ads spending of presidential candidates across the US

EnergySkate (Unity3D, C#)   January 2020
- Worked as the lead developer on a team of 4 students to create an educational cross-platform game to teach kids about kinetic & potential energy
- Gained valuable training in following project life cycle methodologies and utilizing Gannt Charts for efficiency

Video Coding tool (Angular framework, HTML/CSS, TypeScript)   October 2019
- Developed a web app tool for researchers at Wesleyan's Delta Lab to gather data from thousands of student participants at Cornell & Wesleyan which fundamentally streamlined their previous process

WesEvents (Ionic framework, HTML/CSS, TypeScript, Firebase)   Summer 2019
- Independently developed a cross-platform solution for my university to stay up to date with campus events
- Held numerous focus groups sessions to gather feedback on UI/UX

SKILLS

Languages: Python, JavaScript/TypeScript, C#, HTML/CSS, SML, Swift (beginner),
Frameworks: Ionic, Angular, TensorFlow, Hugo
Libraries: NumPy, Pandas, Scikit-Learn, Moment.JS, Google Charts
Tools: Unity3D, Xcode, Bash, Jupyter Notebook, Google Colab, Webflow, Sketch, Git, Github
Data: postgresSQL, mongoDB, Firebase, JSON