Ethan Bootehsaz

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EDUCATION

New York University   **May 2024**
Bachelor of Science, Computer Science   **GPA: 3.41/4.0**
Minors: Math, Cybersecurity
Relevant coursework: Data Structures & Algorithms, Object Oriented Programming, Computer Architecture & Organization, Design & Analysis of Algorithms, Digital Logic & State Machine Design, Operating Systems, Computer Security, Computer Networking

TECHNICAL SKILLS

Languages: C++, Python, Swift, SwiftUI, HTML, CSS
Tools: Git, Firebase, Xcode, VSCode, Excel

PROJECTS

Persian Radio | *Creator* | GitHub   **Summer 2022**
• Developed a full-stack iOS app with MVVM architecture to allow users flexible access to Persian-American radio stations
• Designed and programmed a UI consistent with Apple's Human Interface Guidelines, creating an elder-friendly design
• Emphasized reliability, ease of use, and simplicity in order to address pain points in already existing radio apps
• Followed Apple documentation and guidelines to effectively use iOS's AVKit library and provide command center controls
• Worked with different radio station providers on stream licensing and API access

Tic-Tac-Toe | *Creator* | Appstore, GitHub   **Summer 2022**
• Developed a full-stack iOS app to play multiplayer Tic-Tac-Toe locally and remotely with others
• Cleanly managed library dependencies using CocoaPods to maintain project organization and simplify the use and updating of third party components
• Designed database schema to allow for game and score history, friends list, and other online features
• Wrote efficient algorithms to add online matchmaking and support quick database action and select queries
• Features currently in development: real-time notification system, improved friends list

Wearable Biomedical Device | *Co-developer*   New York, NY | **Fall 2020**
• Built a program in C++ using Arduino IDE that determined the user's pulse and smoke concentration in the surrounding air
• Programmed and added LCD screen to Arduino board to readily communicate sensor results
• Designed and printed a wearable device to house pulse sensor, MQ2 sensor, and LCD

LEADERSHIP EXPERIENCE

Rogue Aerospace | *BOR EECS Subdivision Lead*   New York, NY | **December 2020 – June 2022**
• Led group of EE, CE, and CS students in the development and construction of a radio system to transmit information from rockets sensors to ground station receiver within a radius of 4000ft outdoors
• Programmed and ensured reliability of flight-critical GPS, altitude, temperature, humidity, and barometric components
• Seamlessly integrated software and hardware for smooth and efficient data collection and storage in C++ using a development board with a small computer on a single VLSI integrated circuit chip

Every 15 Minutes | *Associate Producer*   Beverly Hills, CA | **December 2018 – March 2019**
• Directed a $20,000 budget and team in the local production of a nation-wide drunk-driving awareness program, focused on educating students about the dangers of impaired and distracted driving
• Consulted with local officials and organizations to coordinate the most successful campaign yet, resulting in over 200k video views on YouTube

Urban Search & Rescue Skills USA | *Mentor*   Beverly Hills, CA | **January 2018 – March 2018**
• Educated and advised middle school students on safety procedures and proper tool use in a series of weekly workshops
• Provided mentorship in the design and construction of a robot tasked with locating, moving, and disposing of objects

PROFESSIONAL EXPERIENCE

Spectrum Channel 6 | *Producer*   Beverly Hills, CA | **August 2017 – June 2019**
• Produced televised content (live and taped) broadcast to over 35,000 city residents; content included live news, interviews, local election coverage and debates, special reports, public service announcements, and daily programming
• Managed local school district's live board meetings and broadcasts; oversaw audio-video equipment and operating personnel