

Maxwell Roche

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EDUCATION

AMHERST COLLEGE, Amherst, MA

Graduating 5/2019

Candidate for Bachelor of Arts in Computer Science, Mathematics

- Cumulative GPA: 3.55/4.00
- Cumulative Average: A-

EMPLOYMENT

TRIPADVISOR, Needham, MA

6-8/2018

Software Engineering Intern

- Worked alongside a full-time engineer on a significant project to recreate the website's header and navigation
- Made heavy use of React, Java, and Javascript (ES6) to build responsive web components for all device sizes, languages, and layouts
- Learned how to work efficiently and responsibly in a large code base with hundreds of other engineers, and push live code on a weekly basis

AMHERST COLLEGE DEPARTMENT OF MATHEMATICS, Amherst, MA

9/2017-Present

Grading Assistant

- Selected by the Mathematics department to grade and provide feedback for homework assignments in Multivariable Calculus and other high-level courses

AMHERST COLLEGE DEPARTMENT OF COMPUTER SCIENCE, Amherst, MA

9/2017-9/2018

Teaching Assistant

- Assist in teaching students how to better understand, and implement, the fundamentals of Java and object-oriented programming

THINK BIOSOLUTION, Dublin, Ireland

6-8/2017

Software Engineering Intern

- Developed two fully-functioning iOS demo applications from scratch using xCode, Swift, and Objective-C
- Created an iOS application to retrieve, store, and display information from a Raspberry Pi device

EXPERIENCE

TripAdvisor Intern Hackathon

8/2018

Finalist in the annual TripAdvisor Intern Hackathon

- Integrated TicketMaster's API to retrieve information about upcoming concerts based on a user's current location
- Implemented an internal Java API to supply React web components with concert information retrieved from TicketMaster
- Finished as a finalist amongst 18 teams and presented a working demo of the project in front of hundreds of TripAdvisor employees

Music Messaging App

8/2018-Present

Group messaging application for sharing music (currently in development)

- Developing a music sharing application using React-Native, Redux, and React-Native APIs
- Implementing Soundcloud's API for music access, and Firebase for authentication and as a real-time database

Heart-Rate Detection Demo App

6-8/2017

iOS demo application developed for Think BioSolution

- Utilized Swift's G.C.D. to run facial recognition, image processing, and heart rate detection software while users interacted with the application

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

AMHERST COLLEGE NCAA MEN'S ICE HOCKEY

9/2015-Present

- Balance rigorous academic schedule with 20+ hours per week of workouts, practices, traveling, and games
- Two-time member of the NESCAC All-Academic team

AMHERST COLLEGE COMPUTER SCIENCE CLUB

1/2017-Present

- Attend workshops and events to learn various aspects of technology including networking, hacking, and mobile development

AMHERST LEADS

9/2015-9/2018

- Selected to participate in a leadership development program that provides a comprehensive and educational view of leadership that is designed to be used both during and after a student-athlete's experience at Amherst

SKILLS

- Java, Web Development, Mobile Development (iOS, React Native), Linux/Unix, Git, SVN, JIRA