

SHAMBHAVI RAMASWAMY

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EDUCATION

Rutgers University – New Brunswick

Sep 2019 - May 2023

B.S. Computer Science, B.A. Economics, Minor in Mathematics, Certificate in Quantitative Economics

Coursework: Data Structures, Computer Architecture, Calculus II-III, Linear Algebra, Linear Optimization, Macroeconomic Analysis, Discrete Structures I

Campus Involvements: Douglass-SAS-DIMACS Computer Science Living-Learning Community, Tech Array CS Mentor, Rutgers Quantitative Finance Club, Rutgers Women in Computer Science Club, Rutgers Blueprint Club

Thomas Jefferson High School for Science and Technology

Sep 2015 - June 2019

EXPERIENCE

Salhotra Quantitative Challenge

Sept 2020 - Present

- Leading a team of three other students to create an efficient investment algorithm, using Python, Quantopian, and an analysis of stock market trends/data
- Working to compete with other teams in Rutgers Quantitative Finance club for an opportunity to present our algorithm to Susquehanna Investment Group

Rutgers Blueprint Product Management Fellow

Sept 2020 - Present

- Through a highly selective fellowship program, I am building a tool alongside other PM fellows to help students navigate an online semester via a virtual study room social platform
- Using important PM skills such as insight synthesis, product-market fit, user research, and minimum viable products for the creation of this tool

Tech Array CS111 Mentor

Aug 2020 - Present

- Working as a mentor to increase the retention rate of female students in the computer science major after the completion of CS111 (introductory course in computer science), facilitating online networking sessions with other CS students, weekly office hours for material/career questions, and providing insight into exploration opportunities in tech
- Part of a pilot program through Rutgers Tech Array Advancing Women in Computer Science, which is focusing on increasing female representation in computing departments and majors at Rutgers

HackRU Research and Development - One App Flutter Team

July 2020-Present

- Using Firebase Cloud Messaging, worked on introducing iOS push notifications to HackRU's mobile app
- Additionally, working on adding more options to a user's settings page, such as different color schemes, gaining experience in creating Android and iOS apps with Flutter
- Learned how to understand and build off of existing code in a technology I was not familiar with before this project

PROJECTS

Crowdburst

July 2020 - Present

- Created a web app that aids in improving social distancing efforts in my community, by helping users plan for visits during times of lower volume at grocery stores
- Used React.js, Node.js for the front and backend, MongoDB to store user information, and invoked the Yelp API to produce a compilation of popular local businesses, on the main page there is a display of these businesses
- Utilized React.js' Apollo Client library to use a GraphQL API via Hasura, so users can query the business listings, as well as React Hooks to manage my app state, allowed 'routing' via React Router for users to add crowd comments on each business

Sonar Fish Sensor

Sept 2018 - June 2019

- *Water Quality and Macroinvertebrate Monitoring to Assess the Conditions of the Jackson Hollow Stream*
- Developed a rudimentary sonar sensor that captures pictures of fish and other wildlife (via GoPro camera) triggered by servo motors connected to a motion detector and Arduino board
- Part of a research initiative to create a database of information regarding wildlife at a Virginia nature preserve

LEADERSHIP

Remote Students Campus Representative/Fellow

Sept 2020 - Present

- Promote initiatives by Remote Students through my involvements on campus to increase networking and internship opportunities in tech/VC/entrepreneurship for students at universities across the country
- Execute marketing and growth plans with fellows at other universities to increase the growth of this fast growing, venture-backed startup, which has 8,000 active users

Douglass Governing Council - Treasurer

Sept 2019 - Present

- Manage council purchase orders, invoices, apparel design and transaction, as well as finances for Douglass Governing Council
- Serve as a liaison between students and the executive board to plan engaging and rewarding fundraising events for Douglass Residential College

SKILLS

Languages/Technologies: Java, JavaScript, React.js, Node.js, C, HTML5, CSS/DOM, Python, SQL, XML/CSV, JSON, PHP, R, GraphQL APIs, Flutter, REST APIs, MATLAB, Maple, MongoDB, Hasura, Heroku, Arduino, Figma