

SHAMBHAVI RAMASWAMY

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EDUCATION

Rutgers University – New Brunswick

Sep 2019 - May 2023

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

Coursework: Data Structures, Computer Architecture, Calculus II-III, Linear Algebra, Linear Optimization, Microeconomics, Macroeconomics

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

Thomas Jefferson High School for Science and Technology

Sep 2015 - June 2019

Coursework: Foundations of Comp Sci, AP Comp Sci + Data Structures, Research Statistics, AP Calculus BC

Involvements: UNICEF (President), Varsity Lacrosse (Captain), JUMP Lab (Research Fellow)

EXPERIENCE

The Catholic University of America

June 2018 - Aug 2018

Research Intern, Washington, DC

- Conducted statistical analysis and cell measurement using ImageJ
- Began structure and code for software that measures cells from pictures without human involvement

HackRU Research and Development

July 2020-Present

OneAppFlutter Team, New Brunswick, NJ

- Adding new components and completing bug fixes for HackRU's mobile application

PROJECTS

Sonar Fish Sensor

Sept 2018 - June 2019

- *Water Quality and Macroinvertebrate Monitoring to Assess the Conditions of the Jackson Hollow Stream*
- Conducted a research study in my high school's lab
- Developed a rudimentary sonar sensor that captures pictures of fish and other wildlife (via GoPro camera) to better analyze our water quality data for a state wildlife reserve

Sudoku Solver

January 2020

- Sudoku solving program in Java, employs a backtracking algorithm

Twilio Chat Bot

January 2020

- Uses simple neural networks to analyze user input
- Generates responses from open source APIs

Crowdburst

July 2020

- Simple web app that helps users practice and plan for better social distancing at grocery stores during the COVID-19 pandemic
- Employs Node.js, React.js, MongoDB Realm, my own GraphQL API, as well as the Yelp-Fusion API

LEADERSHIP & MENTORING

Women in Computer Science

Oct 2019 - Present

HackHERS Organizer, New Brunswick, NJ

- Company sponsorship outreach committee

Douglass Governing Council

Sep 2019 - Present

Treasurer, New Brunswick, NJ

- Manage council purchase orders and invoices
- Organize apparel and fundraising initiatives for council and Douglass Residential College

Tech Array CS111 Mentor

Aug 2020 - Present

Peer Mentor, New Brunswick, NJ

- Peer mentor to CS111 students at Rutgers, help with any assignments/CS concerns at Rutgers
- Part of an initiative to retain more CS majors after beginner level courses and improve the major track at Rutgers

SKILLS & INTERESTS

Skills: Java, Python, JavaScript, C#, MongoDB, BASH, Git, React.js, Node.js, HTML5, CSS/DOM, GraphQL APIs, PostgreSQL, SQL, XML/CSV, JSON, PHP, Flutter, Web Scraping, REST APIs, MATLAB, Maple

Interests: Fitness, YouTube Channel (srlifts DC), Web Development, Product Management, Rutgers Women's Club Lacrosse