

SHAMBHAVI RAMASWAMY

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EDUCATION

Rutgers University – New Brunswick
B.S. Computer Science, B.A. Economics

Sep 2019 - May 2023

Coursework: Intro to Computer Science, Data Structures, Calculus II-III, Linear Algebra, Microeconomics, Macroeconomics

Involvements: Douglass-SAS-DIMACS Computer Science Living-Learning Community, Club Lacrosse

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

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

Sudoku Solver

January 2020

- Sudoku solving program in Java
- Employs a backtracking algorithm

Twilio - Whatsapp 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

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

SKILLS & INTERESTS

Languages: Java, Python, MongoDB, React.js, Node.js, HTML/CSS, GraphQL APIs

Interests: Fitness, YouTube Channel (srlifts DC)