

VARUN RAVICHANDRAN

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Education

Rutgers Honors College, School of Engineering

New Brunswick, NJ

B.S. Electrical and Computer Engineering; B.A., Computer Science; Minor, Economics

May 2020

- GPA: **4.0/4.0**

- Honors and Awards: Presidential Scholar (top 1-2% of admitted class), Dean's List (all semesters), National Merit Scholar
- *Relevant Coursework:* Data Structures, Differential Equations, Digital Logic Design, Principles of Electrical Engineering Computer Architecture, Engineering Economics, Probability and Random Processes

James Caldwell High School

West Caldwell, NJ

- GPA (weighted) 100.61/100 (Class Rank: 1/203)

June 2016

Work Experience

AT&T

San Ramon, CA

Software Development Intern, Technology Development Program

June 2018 – Present

- Collaborating with an experienced software engineer to design a chatbot to behave as a workflow interface
- Developing various features for the chatbot, including a search engine, basic language processing, an easy-to-use UI, and a RESTful backend to perform authentication and HTTP requests to the repository
- Selected as the lead developer for an Agile Scrum team developing a full-stack data analytics dashboard as part of a nationwide AT&T intern coding challenge
- Developing front-end of homepage and utilizing AJAX in JavaScript to perform calculations and analysis from the data and visualize it

Rutgers Wireless Information Network Laboratory (WINLAB)

Piscataway, NJ

Undergraduate Research Intern

Feb. 2017-Present

- Developed a cloud-based web application capable of receiving and storing data about gestures that was widely used in gesture-based studies in the laboratory
- Promoted to a paid, WINLAB intern for Summer 2017 and collaborated with a team of graduate and undergraduates to implement back end of web application that then collected data for various WINLAB projects
- Led an undergraduate team working on an Android gesture-based keyboard during the Fall 2017 semester

NJ Governor's School of Engineering and Technology (GSET)

New Brunswick, NJ

Student Researcher

Jun. 2015-Jul. 2015

- Invented an eco-friendly automated shower and constructed prototype controlled by Raspberry Pi units in a five-person team
- Published a research paper and presented the invention at the GSET Symposium to Rutgers faculty and public guests.

Extracurricular Activities

Rutgers Enactus

New Brunswick, NJ

Project Manager, Popcorn for the People – May 2018 to Present

Sept. 2016 - Present

- Reorganized the entire structure of the project in order to increase communication and accountability, directly resulting in successful completion of all deliverables assigned by the nonprofit, Popcorn for the People
- Developed a new strategy and direction for Popcorn for the People with its leadership and delegated necessary tasks to finance and operations committees

Project Lead, Finance Committee – June 2017 to May 2018

- Applied to three grants worth a combined \$40,000, winning one that earned \$20,000, and have compiled two months' worth of financial data into Excel workbooks to calculate average overhead costs

Operations Team Member – September 2016 to May 2017

- Designed an equipment layout plan in a new popcorn production facility to minimize time of popcorn production process

Engineers Without Borders – Rutgers University Chapter

New Brunswick, NJ

Chapter Financial Development Team Member

Sept. 2017-Present

- Wrote grant applications to major organizations such as the Global Water Foundation to raise money for EWB-USA Rutgers
- Finance Committee Member, Tanzania Project* *Sept. 2016-May 2017*
- Brainstormed fundraising ideas with fellow team members for the Tanzania Project to implement a water distribution system
 - Won \$5,000 for the project by writing and submitting the EWB-USA spring semester grant application, which was necessary for the team's assessment trip to Tanzania in the summer of 2017

Technical Skills

Languages: Java (Proficient), Python (Intermediate), JavaScript/HTML (Intermediate), MATLAB (Intermediate)

Experience: Web Development (2 years), Android App Development (1 semester), Data Science/Analytics

Programs and Frameworks: Eclipse, Git, Google Firebase, Bootstrap, FusionCharts