

Aditya Verma

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EDUCATION

Rutgers University New Brunswick
B.S. in Electrical and Computer Engineering

Expected Graduation: May 2020
Honors Academy GPA: 3.964

WORK/RESEARCH

ZineOne-Software Development Intern Summer 2018

- Developed **five omni-channel** use cases for America's largest Fortune 500 retailer
- Improved run-time by up to **2000** times for script to be executed millions of times a day
- Captured real time events to perform data analysis and improve user experiences
- Coded in **Java and JavaScript** to integrate back end with client-side code
- Attended customer meetings and met requirements beyond expectations

Flying Insects and Flapping Robots Spring 2017

- Simulations for flapping insects run using MATLAB
- Computational team member tasked with making predictions for the hardware team

Jet Reconstruction & Analysis of Jet Observables (CMS & STAR Collaborations) 2017-2018

- **Managed large datasets** generated by harnessing the Monte Carlo JEWEL
- Coded analyses in **C++** to create plots, which were studied to make predictions for future RHIC experiments at Brookhaven National Lab

PROJECTS

CrowdPlay Spring 2017

- Integrated the **Spotify API** and the **Bose Soundtouch API** to play music on Bose speakers
- Used **Twilio** to communicate via text SMS with the Spotify API. Implemented text-to-speaker features like volume control, song control, song info, etc.
- DevPost: <https://devpost.com/software/crowdplay-q65era>

Autonomous UAV-Drone (Rutgers AIAA) Fall 2017

- Programmed UAV to process a constant stream of large real-time images to locate and identify small targets using **OpenCV and Python**

Wireless Remote-Controlled Robot (Rutgers IEEE) Spring 2017

- Using a **Raspberry-pi**, a wireless robot was remotely controlled by communicating with a **microprocessor** (Arduino or otherwise)

Sketchpad Summer 2017

- Taught myself three new languages (**HTML, CSS, JavaScript**) by taking on an **independent** project to create a customizable Sketchpad
- <http://htmlpreview.github.io/?https://github.com/adverma98/Sketchpad/blob/master/index.html>

LEADERSHIP EXPERIENCE AND ACTIVITIES

Rutgers Engineering Honors Council Elected Representative Spring 2017

- **Formulated, organized and hosted** an 'Engineering Challenge'.

Rutgers Engineering Honors Council Industry Mentorship Program Chair 2017-2019

- Organized 3 annual events. Increased participation **400%** in first year of chairing program
- Coordinated with alumni and students to improve the engineering community

AWARDS

HackRU- Best use of Twilio Fall 2016

- Won prize for best use of the Twilio Cloud Communication platform.

Rutgers Engineering Honors Case Competition- 1st Place Fall 2016

- **Innovative**, easily implemented solution was devised **within 90 minutes** by a team of 4
- Awarded by a panel of Alum from a pool of interdisciplinary, inter-year students

Dean's List Fall 2016, Spring 2017, Fall 2017, Spring 2018

- **Recognized** for exceptional academic performance in a semester

Rutgers Engineering Honors Academy Fall 2016-Present

- **First ever International student** to be invited to the Honors Academy
- Chosen to a group of 70, from a pool of about 7000 shortlisted candidates

RELEVANT SKILLS

Python, Java, JavaScript, C++, Android, Arduino, HTML5, CSS3, MATLAB, LaTeX, SQL