# Gaurang Hitesh Ruparelia

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## EDUCATION

**New York University Tandon School of Engineering | September 2020 to May 2024**

Major: Bachelor of Science in Computer Science; Minor: Mathematics (GPA: 4.0/4.0)
Current courses: Object Oriented Programming, Mechanics, Linear Algebra, Discrete Mathematics, Ethics and Technology

## EXPERIENCES

**Full stack developer intern | ION Energy | July 2021 to present| Mumbai, India**

Deployed the ELK stack (Elasticsearch, Logstash, Kibana) on ION Energy's Altergo application for log analysis that allowed the development team to troubleshoot issues faster.

- Wrote parsing logic to extract details out of Nginx, MongoDB, MySQL, PostgreSQL logs as well as custom logs generated by the Altergo application in Logstash. Created dashboards with visualizations on Kibana for monitoring metrics and health of the application and setup alerts when values exceeded a threshold.
- Wrote shell scripts to automate local installation of Docker, initialize AWS S3 users, buckets, and IAM policies, speeding up the user setup time by 60%.
- Technology used: Elasticsearch, Logstash, Kibana, Filebeat, Metricbeat, shell scripting.

**Undergraduate research assistant in Computer Science | New York University | June 2021 to August 2021 | New York City, USA**

Assisted NYU Professor Darryl Reeves in a research project called 'Patterns in Programming.' The goal was to understand certain recurring patterns of mistakes made by students in Professor Reeves' Intro to Programming class by performing statistical analysis on programming homework submissions.

- Created a data pipeline that used Python libraries to convert code submissions to byte code, perform a diff analysis between subsequent homework submissions, and store the output in a MongoDB database.
- Converted the data from the MongoDB database into multiple Pandas dataframes for future statistical analysis.
- Deployed the codebase on a Google Cloud Platform(GCP) instance. Optimized the code by using regular expressions to conserve resources on GCP.
- Completed the code for, documented, tested, and deployed the pipeline in only 66% time initially projected.
- Technology used: Python, difflib, disassembly module, MongoDB, Pandas, GCP.
- Link to research poster: https://www.gaurang-ruparelia.com/static/media/cs.102eeb95.pdf.

## PROJECTS

**Project leader | Carr-E | February 2021 to May 2021 | New York City, USA**

Carr-E is an autonomous luggage cart that is made to aid the elderly and disabled with their luggage at the airport.

- Built a functional prototype with a $100 budget.
- Placed first in the general engineering competition and won the Nick Russo Prize from NYU.
- Hardware components used: RedBoard, Bluetooth sensor, GPS sensor, Compass, motors and a motor driver.
- Software technology used: C++.
- Link to project: https://www.youtube.com/watch?v=v23SoKtrJJM.

**Project leader | Electron store | January 2021 to February 2021 | New York City, USA**

Built an electronics e-commerce website using MERN stack.

- Features include products search, best-selling products carousel, shopping cart, product ratings, product reviews, checkout process, user profile with orders, admin user management, admin product management, and PayPal integration.
- Technology used: MongoDB, Express, React, Node, Redux.
- Link to project: https://electronstore.herokuapp.com/.

**Project leader | Homey | September 2020 to January 2021 | New York City, USA**

Homey is a platform that connects Homeopaths (Homeopathy doctors) with patients.

- Surveyed 50 Homeopaths about the problems they faced during their consultation sessions.
- Won $1000 from NYU Innovention society for building a prototype.
- Technology used: MongoDB, Express, React, Node.
- Link to project: https://homeyhomeopathy.herokuapp.com/.

## EXTRACURRICULAR ACTIVITIES

**Public speaker| Toastmasters International | August 2020 to present | New York City, USA**

- Pursuing the Visionary Communication Pathway Level 2 at Columbia University Toastmasters Club.
- Won 3rd place in Humor speech competition, 2020.

## SKILLS

**Programming skills:** Python, Pandas, HTML, CSS, Bootsrap, Javascript, Node.js, Express.js, React.js, Redux, MongoDB, MySQL, Git, ELK stack, AWS CLI, AWS S3, C++, Linux, Docker

**Leadership:** First Year Sergeant at Tandon Undergraduate Student Council (TUSC) 2020-2021