Gaurang Hitesh Ruparelia

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EDUCATION

New York University Tandon School of Engineering | 2020 to 2024

Major: Bachelor of Science in Computer Science; Minor: Mathematics (GPA: 4.0/4.0)
Relevant current class: CS-UY 2124 Object Oriented Programming

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.

- Parsed logs from the Altergo application using plugins like grok, geoip, and mutate in Logstash. Implemented the Elasticsearch cluster architecture. Created multiple dashboards with visualizations on Kibana for various stakeholders like clients, developers, and management.
- Wrote shell scripts to automate several processes such as: installation process of Docker on a Debian server, initializing environment variables file for a client.
- Technology used: Elasticsearch, Logstash, Kibana, Filebeat, Metricbeat, shell scripting

Undergraduate research assistant in Computer Science | New York University | July 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 and regular expressions to remove comments from homework code submissions, 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 further statistical analysis.
- Deployed the codebase on a Google Cloud Platform(GCP) instance.
- Technology used: Python, difflib, disassembly module, MongoDB, Pandas, GCP

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.
- Hardware components used included Arduino Uno, Bluetooth sensor, GPS sensor, Compass, motors and a motor driver.
- Software used included Arduino IDE and the Blynk app.
- Placed first in the general engineering competition and won the Nick Russo Prize from NYU.
- 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.

- This was a guided project from a Udemy course called MERN e-commerce from scratch: https://www.udemy.com/course/mern-ecommerce/
- Modified the frontend of the website to make it more professional. 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.
- Link to project: https://electronstore.herokuapp.com/

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

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

- Created a Minimum Viable Product using MERN stack: https://homeyhomeopathy.herokuapp.com/
- Won $1000 from NYU Innovention society for building a prototype.
- Surveyed 50 Homeopaths about the problems they faced during their consultation sessions.

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, Javascript, Node, Express, React, Redux, MongoDB, Git, ELK stack

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