Gaurang Ruparelia

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GitHub: https://github.com/gaurang-1402 | **Devpost**: https://devpost.com/Gaurang-1402

EDUCATION

New York University, Tandon School of Engineering **New York, NY**
B.S. in Computer Science, Minor in Mathematics *September 2020 to May 2024*

- **Cumulative GPA:** 3.97/4.00

Relevant courses: Object Oriented Programming in C++, Design and Analysis of Algorithms, Computer Architecture and Organization

PROFESSIONAL EXPERIENCE

ION Energy **Mumbai, India**
Fullstack Intern *July 2021 to October 2021*

- Deployed the ELK stack (Elasticsearch, Logstash, Kibana) on ION Energy's Altergo application for log analysis that assisted the development team in troubleshooting 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.

New York University **New York, NY**
Undergraduate research assistant in Computer Science *June 2021 to August 2021*

- 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. Link to research poster: https://www.gaurang-ruparelia.com/static/media/cs.102eeb95.pdf/
- 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 requirements of the project in 66% time initially projected.
- Technology used: Python, difflib, disassembly module, MongoDB, Pandas, GCP.

PROJECTS

Carr-E **New York, NY**
Project Leader *February 2021 to May 2021*

- 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.

Electron Store **New York, NY**
Project Leader *January 2021 to February 2021*

- 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/

Livelink LAHacks 2021 **New York, NY**
Frontend Developer *January 2021 to January/2021*

- Built Livelink- an augmented reality(AR) professional social media platform for LAHacks 2021, UCLA's hackathon with 600+ participants.
- Responsible for building the frontend and backend of the registration web application for Livelink along with designing all the visual assets.
- Placed first and won the Best use of Google Cloud and Best Hack using Oracle Cloud Infrastructure prize at LAHacks 2021.
- Technology used: React, Google Cloud Firebase Authentication, Node.js, Express.js, Figma.
- Link to project: https://devpost.com/software/livelink.

SKILLS

- **Programming skills**: Python, Pandas, HTML, CSS, JavaScript, Node.js, Express.js, React.js, Redux, MongoDB, Git, ELK stack, AWS CLI, C++, Linux, Docker, Bash Scripting, Atlassian Suite, MS Office, Jira, Figma
- **Extracurricular**: NYU Robotics Design team, NYU Competitive Programming Club, NYU Entrepreneurial Exchange Group (NYU EEG)