Rohan Anil Gupta

Blacksburg, VA | rohangupta@vt.edu | +1-(540)-449-7542 | https://www.linkedin.com/in/rohan-anil-gupta/

EDUCATION

Virginia Tech (Blacksburg, VA) Aug'21-May'23
Master of Engineering in Computer Science GPA: 3.62/4.00

NMIMS University (Mumbai, India) Aug'14-Jul'18
Bachelor of Technology in Computer Engineering GPA: 3.07/4.00

SKILLS

Functional: Agile, JIRA, SDLC, Git, Gitlab
Programming Languages and Databases: C ++, Python, MySQL, HTML, CSS, JavaScript, Java
Tools and Technologies: Vue.JS, ReactJS, Next.JS, Node.JS, Pandas, SciKitlearn, Matplotlib, OpenCV, PySpark, Keras, Unity, Tableau, Angular, RESTful Services, RESTful API, Android Studio

EXPERIENCE

Software Engineer Intern (Remote), Tech For Good. Inc, Boston MA Jul'22 – Aug'22
- Created a map component for Mission Uplink, integrated within impact dashboard like Grafana.
- Designed a front-end map in NextJS, worked on business-logic for fetching 100% real-time data for map component.
- Increased rendering speed using MapboxGL by 40% for components. Worked in a team of 6.

Data Analyst, Sri Aurobindo Society, New Delhi, India Nov'19 – Apr'20
- Systematized 100% of 5-year historical data for Volunteer Outreach Center.
- Developed over 50 dashboards using Tableau and Excel, including timely progression, along with management requirements to showcase data insights.
- Programmed scheduling system in Python to coordinate trainees with available educational trainers provided by the company, granular to 28 states, numerous districts, and preferred time slots.

Software Engineer, RAZ, New Delhi, India Aug'18 – Sep'19
- Produced an Inventory Management system to track auto parts, admin roles present in stores using MySQL, NodeJS for business logic and ReactJS front end.
- Spearheaded the transition from Indiamart to in-house cloud based web application for selling auto parts online, increasing target audience engagement by 60%.
- Integrated the UPI Payment gateway, showed items in stock and coming soon, saved session information for user carts using ReactJS, REST API functionality with NodeJS endpoints, increasing 30% more functionality within application.

Technical Intern, Open Nirvana, Navi Mumbai, India May'15 – Jul'15
- Extracted and collated data from over 2000 websites for efficient purchase tracker app. Entered product name and received possible vendors with contact, product details in Excel.
- Established a business logic for Toilet detection app using Django framework. Utilized Google Maps API to map over 300,000 toilets for inserting in MySQL database, increasing search abilities by 50%.
- Processed data using Python BeautifulSoup for both projects, leading to faster lookups.

PROJECTS

Healthy5
- Led the front-end development for a fitness and calorie logging web application, with 10+ social media capabilities like upvotes, follows, leaderboards.
- Conducted successful testing of 9 APIs using Postman for user data retrieval from AWS backend.
- Implemented the user interface using Vue.js and Vuetify leading to faster development. Managed state using Vuex

BookStore
- Developed a data-centric e-commerce application using Vue.js for displaying and selling books.
- Implemented the backend using SQL and DAO for storing inventory, customer details, and order data.
- Stored 100+ user data points like cart details, page history and book selection for state management using Pinia.

Tasker
- Created a single activity, multiple intent app using Android Studio for task management.
- Programmed a recycler view to load task list from a database and added an intent to edit task name, task deferred or accomplished, ensuring good UX practices.
- Implemented 7 features to take photos upon task completion, swipe features for navigating through app and swipe to delete feature, enabling intuitive app interaction for users.

Pedestrian Detection for Advanced Driver Assistance Systems
- Developed a pedestrian protection system using Python for alerting drivers on possible collisions with accuracy of 95%.
- Inculcated an image processing algorithm using a combination of Haar Cascade and LBP classifiers to identify whether pedestrians were within dangerous distance of car, with large Indian training data, eliminating multiple false positives.
- Created a customizable alerting mobile application using Android Studio to alert the driver of the oncoming pedestrians.

INVOLVEMENTS AND ACHIEVEMENTS

- Co-authored a Research Paper published in Springer on "LBP-Haar Cascade Based Real-Time Pedestrian Protection System Using Raspberry Pi" and presented at Recent Trends in Image Processing 2018 conference.