Vaibhay Sharma

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SKILLS

Programming/Scripting Languages: C++, C, Java, MySQL, PostGres, NOSQL, Python, JavaScript, MATLAB, GIT, REACT, Neo4J Web Based technologies and Development: HTML5, CSS3, PHP, Data Science, Operating Systems, AI/ML, Data Structures and Algorithms, DynamoDB Frameworks and tools: Wireshark, AWS, Cloudshell, EC2, Lambda Function, IC3, Cloudwatch, API Gateway, Docker, Software Development Lifecycle

EXPERIENCE

Software Development Co-op

Rochester Regional Health, NY, USA

06/2024 – Present

• Designed and developed a responsive web application using React to automate nurse competency approval, streamlining processes for 5000+ nurses across 12 hospitals, saving over 20 hours and 120 pages per nurse.

Teaching Assistant -> Advanced Object-Oriented Programming (using Java)

Rochester Institute of Technology, Rochester, NY, USA

08/2023 - 06/2024

- Guiding 50+ students in Java and OOPS concepts, resulting in a 20% increase in average assignment grades over the semester, while delivering tailored lessons and assessments to enhance understanding of Java principles.
- Provided constructive feedback on code quality, efficiency, and adherence to requirements, ensuring students' continuous improvement in Java programming skills.

Graduate Assistant

Rochester Institute of Technology, Rochester, NY, USA

08/2023 -05/2024

- Evaluated and analyzed data for MCAS & DDI Tutoring, achieving a 30% improvement in program effectiveness, while overseeing a team of 10+ peer tutoring leaders to increase student engagement by 25%.
- Collaborated on team-building activities, resulting in a 100% increase in participation in the Peer Course Consultant program.

Retail Systems Analyst

Rochester Institute of Technology, Rochester, NY, USA

06/2023 - 08/2023

- Mentored in managing online systems for 7+ RIT Dining facilities, ensuring PCI DSS compliance, and resolving incidents.
- Managed tasks within InfoGenesis, OnDemand Ordering, and Yellow Dog Inventory of 2000+ items to streamline operations.

Software Development and Research Internship

The LNM Institute of Information Technology, Jaipur, India,

05/2020 - 07/2020

- Implemented a Linear Regression Model on the Covid dataset of Chicago with 10,000+ entries.
- Designed the relationship between the number of Covid tests and positive cases, achieving an impressive accuracy of 87%.

Software Development Internship

ACPL Systems Pvt. Ltd, Gurgaon, India,

05/2019 - 07/2019

- Constructed a packet sniffer on 5 computer network protocols for "Attack Fence", reducing network security breaches by 30%.
- Led a team of 5 to research Cyber Security Compliance, resulting in recommendations that revamped system security by 25%.

EDUCATION

Rochester Institute of Technology

Rochester, NY

Golisano College of Computing and Information Sciences

May 2025

Master of Science, Computer Science

GPA: 3.7/4

Coursework: Artificial Intelligence, Machine Learning, Big Data Analytics, Cloud Computing, Non-relational Data analysis

The LNM Institute of Information Technology

Jaipur, India

Bachelor of Technology, Computer Science

September 2021

 $Coursework: Advance\ OOPs,\ Algorithms,\ Computer\ Networks,\ Operating\ System,\ Databases,\ Distributed\ Systems$

PROJECTS

$Prototype\ Of\ Drowsiness\ Detection\ |\ (Python,\ OpenCV,\ dlib,\ Classification)$

- Executed a real-time Drowsiness Detection prototype with optimal EAR (0.267) & MAR (0.585) thresholds.
- · Revamped facial image capture in driving scenarios, achieving 89% accuracy with a pre-trained model & ROC analysis.
- Incorporated 3 alert system with visual & auditory cues for communication of drowsiness indicators to the driver.

IMDB Data Analysis | (Python, PostgreSQL, MongoDB, Apache Spark)

- Assessed a 21M-record dataset, improving query performance by 70% with key and materialized view strategies.
- Leveraged k-means clustering and Apriori algorithm for 20% better decision-making and transitioned relational database to NoSQL, enhancing data accessibility by 30% and retrieval efficiency by 25%.

NYC Crash Data Analysis | (Python, Pandas, Geopandas, Folium, K-means Clustering)

- Analyzed Brooklyn's traffic data from 2019-2020, identifying accident hotspots and trends using geospatial analysis and K-means clustering.
- Created interactive Folium maps to visualize accident data, conducting detailed temporal analysis for informed decision-making.

Providing SaaS using Docker containers over the cloud | (AWS, Docker, Firefox)

Generated Firefox as different instances to different customers using the Dockers containers making it scalable and easily modifiable.

AWARDS

Inaugural RIT Outstanding Graduate Student Award Nominee