VINITA PARASRAMPURIA

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EDUCATION

New York University	New York City, NY
Master of Science, Computer Engineering, CGPA 3.96/4.0, Summa cum laude Honors	Sept 2021 - May 2023

Graduate Teaching Assistant- Internet Architecture & Protocols
Data Structures & Algorithms, Java Programming, Database Management System, ML

Jadavpur University	Kolkata, India
Bachelor of Engineering, Instrumentation and Electronics, CGPA 9.56/10, University Topper	July 2012 - May 2016

Numerical Methods & Comp Prog, Object Oriented Prog, Comp Organization & Networking

SKILLS

Languages:	Java, Python, C, C++, JavaScript, HTML, CSS, SQL, Shell, Bash
Technologies:	Spring Boot, JWT, .NET, MVC, PHP, Jira, MySQL, Oracle SQL, NoSQL, MongoDB, NodeJS, ReactJS, Postman, REST API, AWS, S3, Docker, Kubernetes, Jenkins, GitHub, Git, Axios, Tableau
Machine Learning:	Keras, KNN, CNN, Matplotlib, sklearn, TensorFlow, SVM, Deep Learning, Reinforcement Learning

PROJECTS

E-commerce analytics pipeline   Oracle SQL Developer, Data Modeler, MySQL, Tableau

- Optimized data structure for a database with **50k+ entries**, resulting in reduced query response times and decrease in data entry errors.
- Implemented **ETL** and **CDC** processes that reduced data transfer time and ensured 99% **schema alignment** accuracy, resulting in improved **data availability for analytics.**
- Utilized advanced database features, leading to a **40% reduction in data retrieval** times and decrease in database maintenance costs.
- Through **Tableau-driven data analytics,** identified and rectified loss factors, resulting in a 15% increase in revenue.

CourseLink   Springboot, Maven, REST API, JWT, MongoDB

- Developed a robust course management system with **20+ REST** endpoints for handling courses using the **Java MVC** pattern.
- Connected **MongoDB** database, reducing data access time and ensuring **data integrity**, while **JWT authentication** improved security and reduced unauthorized access incidents.
- Integrated **Stripe API** to facilitate **secure payments**, resulting in successful transactions and decrease in payment-related issues.

PROFESSIONAL EXPERIENCE

Research Assistant, New York University (Hybrid)   June 2023-Aug 2023

- Created and managed **15+ experimental** profiles on **Linux** systems, automating tasks using **bash and Python** scripts.
- Established access and transit networks with redundancy, reducing network outages by 20% and expertly configured **OSPF/BGP** routing on FRR, improving routing stability and network scalability.

Cloud Automation Engineer Co-op, Nokia Corporation of America (Remote)   Jan 2023 – May 2023

- Successfully delivered and documented **APIs** for user management, resulting in a **20% reduction** in **customer support tickets**.
- Developed a centralized **authentication and authorization** application using **ReactJS,** reducing the authentication setup time by 30% for multiple cloud infrastructure applications and enhancing security and user management efficiency.
- Created **Python scripts that automated hardware diagnosis**, minimizing downtime, and contributed to a 15% reduction in maintenance costs, ensuring more reliable cloud infrastructure operations.

Senior Instrumentation Engineer, Cairn Oil & Gas, Vedanta Ltd. (In-person)   July 2016-Aug 2021

- Successfully implemented an **IoT network**, resulting in an annual cost savings of **$7 million** and enhancing measurement reliability.
- Implemented **process automation and monitoring systems,** leading to a 20% reduction in manual labor costs and a 15% increase in production efficiency due to real-time insights and data-driven decision-making.
- Expanded plant sales capacity by 33%, resulting in an annual revenue increase of **$10 million**, while meeting client demands through strategic enhancements in the fiscal metering unit.

ACCOMPLISHMENTS

- 2022:1st Prize in Morgan Stanley **Code to Give Hackathon** for making a web app to match a mentor and mentee using ReactJS.
- 2020: **Chairman's award** for "Process Improvement through Innovation" from 75,000 employees for multi-million dollar savings.
- 2020-Identified as **Young Leader** for delivering a project on "Media relations and content strategy" from a pool of 150 employees.