VINITA PARASRAMPURIA

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EDUCATION

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

Data Structures & Algorithms, Database Management System, Internet Architecture & Protocol, ML

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

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

PROFESSIONAL EXPERIENCE

Cloud Automation Engineer Co-op, Nokia Corporation of America   Jan 2023 – Present
- Built an application to centralize KeyCloak and KeyStone AAA for different cloud infrastructure applications using React and APIs.
- Scripting, producing test specifications and testing for automation and orchestration of server health checks and diagnosis.

Senior Instrumentation Engineer, Cairn Oil & Gas, Vedanta Ltd.   July 2016-Aug 2021
- Established a network of wireless transmitters for accurate hydrocarbon accounting and safety enhancements with $7M/year savings.
- Automated tanker filling operations preventing over spills, increased safety and improved oil accounting at seven oil sites.
- Digitalized two $7.3M/year revenue generating well pads operating on relay & pneumatic logic by installing PLC and SCADA systems.
- Received several excellence awards for outstanding performance during commissioning activities of $230M gas plant and oil well pads.
- Oversaw a 90 mmscfd plant to maintain 100% availability through planning, resource allocation, execution, and inventory management.

PROJECTS

- **Library Management System**   HTML, CSS, JS, PhP, Oracle SQL Developer, MySQL, XAMPP
Developed a web application with logins for user and admin to issue book, reserve rooms, schedule seminar and exhibitions, invoice generation with features like password reset, password encryption, dashboards, data visualization and calendars for room reservation.
- **Hospital Management System**   HTML, CSS, JS, Bootstrap, PhP, MySQL, TCPDF, XAMPP
Created a unified platform for patients, doctors, and admin to standardize hospital records, appointment booking and payment processing with features like automatic patient ID generation, password encryption, appointment cancellation and automatic pdf bill generation.

- **Chat Application**   Java, Swing
Developed a group chatting system in Java where multiple users can connect to a common server and send messages to each other.
- **Tech Alpha mentor mentee match web application**   HTML, CSS, JavaScript, AWS
Built a website for best possible mentor-mentee matching having interactive features and appointment scheduling for Tech Alpharetta.

- **Analytical and theoretical study of TCP Cubic Congestion Control Algorithm**   Wireshark, Geni, CloudLab, Linux, MATLAB
Analyzed the steady state throughput of TCP Cubic using deterministic loss model and random loss model with Markov chain queuing theory. Conducted experimental study of fairness and throughput of multiple congestion control algorithms-BBR, Cubic, Reno at the core.

SKILLS

Languages: Java, Python, C, C++, JavaScript, HTML, CSS, SQL, Shell
Tools & Libraries: Numpy, Pandas, Sklearn, Seaborn, Matplotlib, TensorFlow, Keras, Jupyter Notebook, GIT, Jira, MySQL, MATLAB, NodeJS, Eclipse, Netbeans, Visual Studio Code, ReactJS, Axios, Oracle SQL Developer, Postman
Operating Systems: Windows, MAC, Linux

ACCOMPLISHMENTS

- 2022:1st Prize in Morgan Stanley Code to Give Hackathon
- 2021: Merit based scholarship at New York University
- 2020: Chairman's award for "Process Improvement through Innovation" from amongst 75,000 employees
- 2020-Identified as Young Leader for delivering a project on "Media relations and content strategy for Cairn"
- 2016: Dr B.C. Roy Memorial medal for securing highest aggregate of marks amongst sixteen departments in engineering
- 2014: The Best Student of the Year & Supriya Basu Scholarship for highest percentage in Engineering Faculty

EXTRA ACTIVITIES

- Active member of the database team within the Augmented Library Vertically Integrated Project.
- Facilitator at Cairn's wellness committee maintaining health and hygiene and arranging team building activities beyond work.
- Communication champion at Cairn responsible for creating content for monthly magazine and newspapers.
- Core member of Branding team & 5S team at Cairn.
- Member of Anti-Ragging Community at Jadavpur University.