

VINITA PARASRAMPURIA

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EDUCATION

New York University

Master of Science, Computer Engineering, CGPA 3.95/4

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

New York City, NY

Sept 2021 - May 2023

Jadavpur University

Bachelor of Engineering, Instrumentation and Electronics, CGPA 9.56/10

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

Kolkata, India

July 2012 - May 2016

PROFESSIONAL EXPERIENCE

Senior Instrumentation Engineer, Cairn Oil & Gas, Vedanta Ltd

July 2016-Aug 2021

- Managed teams of 20 people from various departments for executing preventive, breakdown, shutdown, and predictive maintenance.
- 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 its 100% availability through planning, resource allocation, execution and inventory management.

PROJECTS

• Hospital Management System (HMS)

HTML, CSS, JS, Bootstrap, PHP, MySQL, TCPDF

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.

• Snake Game:

Java, Swing, JDBC

Developed Snake Game in Java with different levels which can be played online simultaneously by multiple users. Features such as login, highest score and best time implemented using database.

• Notes Application:

ReactJS, CSS

Designed a web application for making notes, deleting and searching for notes, toggling dark mode and storing to local storage.

• Weather Application:

ReactJS, Axios, CSS

Designed a weather application to get various temperature attributes from OpenWeatherMap API as per location entered by user.

• Tech Alpha mentor mentee match 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 large scale.

SKILLS

Interests: Software development, Cloud, Machine Learning, Web App Development

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, React, Axios

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
- 2009: 1st prize in 36th Jawaharlal Nehru Young Scientist's Exhibition at State Level

EXTRA ACTIVITIES

- Active member of database team within the Augmented Library Vertically Integrated Project.
- Completed Leetcode Bootcamp at NYU, focusing on competitive coding and strengthening technical skills.
- Facilitator at wellness committee maintaining health and hygiene and arranging team building activities beyond work.
- Communication champion at Cairn responsible for creating content for monthly magazine. Photo submissions were published in several newspapers on International Yoga Day.
- Core member of Branding team & 5S team at Cairn.
- Member of Anti-Ragging Community at Jadavpur University.