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Graduated With Honors in Computer Science and Engineering in 2024

Professional Experience _

Microsoft | Software Engineer 1

(June 2024 - Aug 2025)

- Automated deployment of Microsoft 365 services on **Sovereign Clouds** using **CI/CD** pipelines, leveraging region-aware artifact validation and dynamic test coverage to streamline workflows, and achieved **6x** faster deployment.
- Engineered dependency-aware orchestration to ensure correct service sequencing and reduced deployment failures.
- Integrated centralized dependency management and component-based buildouts using **REST APIs**, enabling **independent deployment** of loosely coupled packages and significantly improving scalability and flexibility.
- Enabled **real-time alerting** and monitoring for workflows to improve operational visibility and responsiveness.
- Built an internal **LLM-powered bot** for automated query resolution, reducing on-call workload by 50%.
- Technologies: C#, .NET, Node.js, REST APIs, Azure, Kusto Query Language, CI/CD pipelines.

NoBroker Technologies | Software Development Internship

(May, 2023 - June, 2023)

- Created an Error Logging System automating exception detection in company APIs, using Spring Boot
- Integrated Elasticsearch and MongoDB for robust exception storage and streamlined issue tracking on JIRA
- Enhanced A/B testing by implementing tag-based user segmentation, leading to better results and decisions
- Improved the UI of the project using **JQuery** script for better user experience, clarity and usability

Lex Res Data Analytics Pvt Ltd | Software Development Intern

(June, 2022 - Aug, 2022)

- Utilized Flutter framework and Android Studio to construct the user interface for the company's mobile app
- Employed Audio-Player plugin to showcase audio files created from text summaries in an interactive manner.
- Collaborated with Database and Backend units to integrate UI with AWS S3 storage for enhanced functionality

KEY PROJECTS

C Language Compiler | Course Project

(Spring 2023)

Guide: Prof. Amitabh Sanyal

- Developed end-to-end C-like language compiler, with scope checking, type verification, and overload resolution
- Created parser and AST-based error handling system, facilitating debugging with informative error messages
- Employed Sethi-Ullman algorithm and advanced control flow techniques for efficient x86 machine code generation

Railway Reservation System | Course Project

(Spring 2023)

Guide: Prof. S. Sudarshan

- Developed a **PERN stack** railway ticket booking system for efficient booking and an enhanced user experience.
- Engineered distinct user privilege levels and crafted an intuitive UI using Tailwind CSS and Material UI
- Implemented automated seat status updates using functions and triggers, enhancing overall system's efficiency

Peer to Peer Network Application | Course Project

(Spring 2022)

Guide:Prof. Kameshwari Chebrulu

- Implemented a **P2P network** for searching and downloading files upto a specified neighbour depth
- Used basic multi-threading and implemented the client-server model for downloading files from peer
- Used C++ to set up TCP connections for downloading files and used MD5 hash for detecting errors.

SCHOLASTIC ACHIEVEMENTS

- Secured a percentile of **99.65** in **JEE Mains** conducted by **NTA** amongst **1.2** million across India (2020)
- Secured position in top 1.5% in JEE-Advanced examination out of 0.2 million candidates (2020)
- Recieved Super-100 scholarship by Haryana Government given to 100 students across the state (2018)

TECHNICAL SKILLS

- Languages: C/C++ | Python | VHDL| Prolog | Bash | Java | MATLAB | HTML | LATEX | Django | JavaScript
- Softwares: Git | Android Studio | MATLAB | Photoshop | ArduinoIDE | Autocad | WireShark
- Libraries and tools: Pandas | Scipy | Numpy | Matplotlib | Scikit-learn | z3 | Tenserflow | Pytorch | OpenGL
- Skills: Web Devlopment | Flutter App devlopment | Computer Networks | Machine Learning

EXTRA CURRICULAR ACTIVITIES.

• Successfully completed a year-long training of NCC DRILL and YOGA under NCC

(2020-2021)

- Performed Bhangra, Bollywood, hip-hop and various dance forms at multiple shows at IIT Bombay (2021-2024)
- Pursued Kathak training for one year and completed a 3-month course in flute learning.