Rahul Talari

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EDUCATION

University of Florida   *Gainesville, United states*
Masters of science in Computer Engineering   **August 2023 – present**
Course work: Advanced data structures, Database Management Systems, Distributed Operating Systems Principles, Analysis of Algorithms, Data engineering, Computer Network security.

Motilal Nehru National Institute of technology   *Allahabad , India*
Bachelors of technology in Electronics and Communication Engineering   **July 2019 – May 2023**
Course work: Computer Programming, Data Structures and Operating Systems, Computer Architecture, Microprocessor and Applications, Digital Signal Processing.

TECHNICAL SKILLS

Programming Languages:	C/C++, Javascript/Typescript, Python, C# , Java
Development:	ReactJS, HTML, CSS, Angular, SQL, jQuery, MySQL, MongoDB
Frameworks:	FastAPI, Spring, Next.js, Bootstrap, Node.js, Flask, REST APIs, .NET
Technologies:	Git, Android Studio, AWS, Microsoft Azure, Kubernetes
Computing Environments:	Linux, Windows

PROFESSIONAL EXPERIENCE

Focus softnet   *Hydearabad, India*
Software Engineering Intern   **July 2021 – January 2022**
- Improved Dynamic CRM Experience: Building a Customer Relationship Management App Powered by **Django**.Utilized **MySQL** as the backend database system for comprehensive storage and management of critical customer-centric data.
- Streamline communication between sales and support teams, reducing response times by 50 percent and enhancing customer satisfaction.
- Employed Django as the cornerstone technology in the CRM project, harnessing its potent capabilities to establish a highly efficient and versatile development framework while working in an Agile methodology to ensure iterative development, continuous feedback, and rapid deployment.

PROJECTS

Q-File-Share   **August 2024 – December 2024**
- Developed a secure file-sharing application utilizing Post-Quantum Cryptography (PQC) techniques such as Crystals Kyber for key exchange and Crystals Dilithium for digital signatures.
- Built the application using **Next.js** (frontend) and **FastAPI** (backend) for a fast, responsive, and efficient user experience, utilizing various NPM packages to enhance functionality and streamline development.
- **PostgreSQL** was used as the database to guarantee dependable data storage, effective querying, and smooth backend integration for user data and file metadata management.

Global Trend Analyzer   **August 2023 – Decemebr 2023**
- Spearheaded the development of the "Global Trend Analyzer" from conception to implementation, Utilised **MySQL** for efficient data management and querying.
- Customization options included selection from a curated list of data sources (e.g., GDP, education, mental health metrics), narrowing down analysis by country, continent, or region, and specifying desired time frames.
- Worked on implementing the APIs for the application in **Python** using **Flask**, Facilitating a stable interaction between the client and server.

BitTorrent Application   **August 2024 – January 2024**
- Implements a **Java** based BitTorrent Application. Supports distributed file transfers by splitting files into smaller pieces and sharing them among peers.
- Efficient bandwidth allocation using a choking/unchoking strategy to manage peer selection. Peers dynamically adjust download preferences to optimize data transfer speeds.
- Application is cross-platform compatible and also uses a logging system to record peer activities, including connections, choking, and file transfers.

E-kart   **August 2022 – January 2023**
- Designed and developed a e-commerce website using the **ReactJS** (Front end) and **Node.js** (Back end), showcasing a sleek and user-friendly UI design for an optimal shopping experience using **MERN** stack.
- This platform represents a student-centric e-commerce website, dedicated to supporting and guiding freshers.