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EDUCATION

University of North Carolina, Chapel Hill, NC, United States **August 2023 - May 2025**
Master of Science, Information Science
Relevant Coursework: Information Retrieval, Systems Analysis, Machine Learning, Database Systems, Modern Web Programming, Algorithms and Analysis

Jamia Millia Islamia, New Delhi, India **August 2018 - May 2022**
Bachelor of Technology, Computer Science Engineering (GPA: 8.75/10)

WORK EXPERIENCE

Samsung Research and Development Institute, [SDE] New Delhi, India **May 2022 - August 2023**

- Contributed as a Software Engineer in the RIL Telephony/Communication Protocol Team.
- Enhanced voicemail functionalities by addressing state changes during device bootup in Android 13 for major US carriers like Verizon and AT&T.
- Resolved server-side issues about messages and MMS services.
- Led an internal project during the COVID-19 pandemic, developing a seat booking system using Nodejs, Python, and a MongoDB Database. Achieved a 60% increase in seat booking efficiency.

Easy Eat, [Backend Developer Intern], New Delhi, India **June 2021 - Jan 2022**

- Developed a detailed low-level design for OTP functionality, resulting in a 90% success rate in OTP deliveries.
- Integrated HubSpot CRM using APIs to automate updates of critical properties like Total Orders, Total GMV, and Total Cancelled Orders in a nightly sheet.
- Developed and deployed WhatsApp integration to enhance user experience by automatically notifying users of their order status and providing an invoice link upon order completion, significantly improving the application's user-friendliness.
- Utilized Selenium for web scraping to extract restaurant details, thereby aiding the product team in onboarding more restaurants by leveraging the scraped data effectively. This initiative significantly contributed to the growth of the startup, as more chains of restaurants began to onboard, expanding the platform's reach and offerings.

ACADEMIC PROJECTS

Real-Time Flight Tracker – Semester 1 Graduate Project **August 2023 - December 2023**

- Accomplished the objective of the project to create a real-world visual analytics system by developing a global flight inquiry prototype using HTML5, CSS3, and JavaScript languages.
- Demonstrated strong project management skills in overseeing the development of the entire project, to deliver a dynamic and insightful tool for understanding global air traffic dynamics, allowing exploration of current aircraft positions, airports, airspace, and the impact of the COVID-19 pandemic on flight activities.

File Transfer Application **April 2022**

- Developed a web app with a RESTful API for file uploads, email sending, and link sharing. Built using HTML, CSS, Node.js, Express, and MongoDB for streamlined functionality.
- Implemented file uploading functionality using the Multer package, which is a middleware for handling multipart/form data in Node.js. Multer simplifies the process of handling file uploads by providing a way to parse and store uploaded files on the server.
- Integrated Nodemailer to streamline email sending from Node.js applications, providing versatility, customization, security, and efficient asynchronous operations, thereby enhancing the overall email communication experience.
- Implemented a scheduled script on the server to automatically delete files older than 24 hours from the storage system, optimizing storage management.

SKILLS

- **Technical skills**: Java, Python, JavaScript, Bash, C, SQL, Nodejs, NestJs, AWS, TypeScript, MongoDB, DynamoDB
- **Tools and Utility:** Agile, Jira, Git, Microsoft Office, Jenkins, Github, Eclipse, Vscode, Sublime Text, Robo3T, Postman