# Govind Rahul Mathamsetti

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Experienced **software engineer** with a Master's degree in Computer Science

## EDUCATION

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| **University of North Carolina at Charlotte (UNCC)** | **Aug 2022 – Dec 2023** |

*Master of Science in Computer Science*          GPA: **4.0/4.0**

Courses: Data Structures & Algorithms, Software System Design Implementation, Database Systems, Intelligent Systems

**Institute of Aeronautical Engineering**

*Bachelor of Technology in Computer Science and Engineering*          GPA: **3.5/4.0**

## TECHNICAL SKILL

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| **Programming Languages:** | Java, Python, JavaScript, TypeScript, HTML5, CSS3, C++, SQL |
| **Frontend:** | React, Angular, Redux, jQuery, Ajax, XML, HTML5, Bootstrap, Tailwind CSS, D3.js, Next.js, Vue.js |
| **Backend:** | Spring Boot, Spring, Node.js, Express.js, RESTful API, Hibernate, Flask, Django |
| **Databases:** | AWS S3, Amazon DynamoDB, Amazon RDS, PostgreSQL, MySQL, MongoDB |
| **Cloud Services:** | AWS EC2, AWS Lambda, AWS Elastic Beanstalk |
| **Miscellaneous:** | Docker, Kubernetes, Maven, Jenkins, Apache Kafka, JUnit, Git, Jest, Postman, VS Code, IntelliJ IDEA |

## WORK EXPERIENCE

*Software Engineer  – Spark Lync Technologies*                                    **Jan 2021 – June 2022**

- Optimized the "Vehicle Deals Platform" using **React.js**, with techniques such as lazy loading, React hooks, and React portals for Micro-frontend components, resulting in a better UI and reducing the initial load time by **15%**
- Integrated **Redux** within the React.js framework for advanced state management across multiple components, leading to an improved code maintenance
- Refined backend services using **Node.js** and **Express**, built RESTful APIs for routing, and performed upgrades and optimizations on the existing PostgreSQL database for data operations
- Implemented **Sequelize** with **Node.js** for streamlined object-relational mapping, significantly enhancing data transaction processes. Improved data retrieval speeds by integrating **Redis** caching, which led to a **10%** improvement in response time
- Enhanced application security within the **Node.js** environment by integrating **OAuth2** Server for sophisticated authentication and authorization mechanisms. Worked closely with the DevOps team to support the integration of **Jenkins**, optimizing **CI/CD** workflows
- Supported infrastructure enhancements, utilizing AWS services like **AWS S3** for distributed storage and **AWS RDS** for efficient database management
- Contributed to backend quality by implementing **Mocha** testing, and improved frontend reliability with **Jest**, leading to efficient deployments and effective A/B testing

*Software Engineer Intern – Spark Lync Technologies*                                    **July 2020 – Dec 2020**

- Enhanced a web-based application designed for professional portfolio management by updating backend services to utilize **Node.js**, facilitating the development of **RESTful APIs** that support profile creation, asset uploads, and user feedback
- Assisted in frontend development using **React.js**, enhancing **10** responsive components, while ensuring smooth integration with endpoints, contributing to an improved user experience through optimized performance
- Collaborated with a team to utilize **AWS RDS** with PostgreSQL for efficient user data storage and management, integrated **AWS S3** for the storage and on-demand retrieval of assets such as profile pictures, portfolio images, and video presentations
- Utilized **Jest** for testing of Node.js backend operations, significantly boosting their stability and performance

## ACADEMIC PROJECTS

*Versatile E-Payment Microservices System (GitHub)*

- Developed an e-wallet platform using **Java** and **Spring Boot**, segmenting key features into microservices for user profiles, transactions, and notifications, enhancing data flow with **Apache Kafka** and retrieval speeds with **Redis**, while securing access via Spring Security and OAuth2, all containerized with **Docker** for streamlined deployment

*Career Portal (GitHub)*

- Created a responsive Job Application Portal utilizing the **MERN** stack, where **Redux** was employed for efficient state management and lazy loading techniques to enhance interface performance, secured by **JWT** authentication, and backed by **MongoDB** for streamlined job data management

*Interactive Academic Collaboration Hub (Backend Developer)*

- Developed a collaborative academic platform with **FastAPI** and **Python**, facilitating student group formations and discussions, integrated OAuth for security, and employed **PostgreSQL** with SQLAlchemy ORM, nginx, UFW firewall, and Certbot SSL for robust operations, while optimizing deployment on **Amazon EC2** using Docker and **GitHub Actions** for **CI/CD** automation