

# Rohith Kumar Saravanan

University Ave, Waterloo, ON, Canada

Full Stack Developer (3+ Years) | Master's in Computer Science | Ex-Infosys Digital Specialist | AI & Cloud Enthusiast

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[codewithrohith.github.io](https://codewithrohith.github.io) (Portfolio Website)

**Professional Summary:** *Dynamic Full Stack Developer with over 3 years of hands-on experience in designing and implementing end-to-end solutions using .NET, Angular, and Flask. Adept at combining front-end innovation with robust backend architecture to create scalable, high-performance applications, enhancing system efficiency by 25-40%. Driven by a passion for leveraging AI integration, optimizing system architectures, and fostering collaborative problem-solving to deliver seamless, user-centric solutions.*

## Technical Skills

|                         |   |
|-------------------------|---|
| Languages:              | Python, Java, C#, JavaScript, TypeScript, C/C++, SQL                            |
| Frameworks & Libraries: | .NET, ASP.NET, Angular, React, Flask, Django, Entity Framework, Spring          |
| Cloud & DevOps:         | Microsoft Azure, Azure DevOps, Docker, Jenkins, GitHub Actions, CI/CD Pipelines |
| Databases:              | PostgreSQL, MySQL, Microsoft SQL Server, MongoDB, Redis                         |
| AI/ML & Data:           | Machine Learning (Scikit-learn, Pandas), Data Analytics, Big Data               |
| Tools & Practices:      | Git, GitHub, Jira, Postman, Agile/Scrum, Unit/Integration Testing               |
| Systems:                | Windows, Linux  |

## Work Experience

### Digital Specialist Engineer (Full Stack Developer)

Infosys, Hyderabad, India | **September 2020 - August 2023**

- Full-Stack Development & Feature Enhancements:** Led enhancements for a warehouse management system using **AngularJS** and **.NET Framework**. Independently developed and deployed new features via **IIS**, increasing operational efficiency by **25%**.
- CPQ System Development & Optimization:** Designed and optimized a real-time **Cost Price Quote (CPQ)** system using **.NET Core**, **Angular**, and **Microsoft Azure**, enabling seamless escalator/elevator customization. Developed a verification engine that reduced configuration errors by **40%** and enhanced code efficiency by **30%**.
- AI-Powered Backend Development:** Built **Flask** and **Flask-RESTful APIs** for a government infrastructure project, enabling AI-driven cost analysis for optimal internet connectivity routes. Integrated with a **React** frontend and improved API response times by **35%**.
- Enterprise Data Migration & Integration:** Developed a secure data migration gateway using **Node.js**, facilitating seamless enterprise transitions from Google services to Microsoft services with a **99.9% data transfer success rate** and zero downtime.
- Cloud & Database Optimization:** Managed and optimized **PostgreSQL**, **MySQL**, and **Microsoft SQL Server** databases, enhancing query efficiency and indexing to improve performance by **40%**. Deployed applications on **Microsoft Azure** and **IIS** for scalable cloud solutions.

## Education

**Master's in Computer Science** | CGPA: 4.1 (95.4%) | Top 5%

University of New Brunswick, Fredericton, NB, Canada | **September 2023 - April 2025**

**Coursework:** *Focused on advanced software development, cybersecurity, and management courses, such as Artificial Intelligence, Machine Learning, Big Data, Advanced Software Development, Network security, Quality Management, Data Analysis. Equipped with a strong understanding of technical and strategic computing aspects.*

**Research Publication:** *Classification of Mobile Adware Variants Using Machine Learning Techniques*

**Bachelor's in Computer Science and Systems Engineering** | CGPA: 8.26 (83.2%) | First Class with Distinction

Sree Vidyanikethan Engineering College (Mohan Babu University), India | **August 2016 - May 2020**

**Coursework:** *Built a solid foundation in software engineering, algorithms, and system architecture, with hands-on experience in developing scalable and efficient software solutions.*

**Honors:** • *AP State Government Scholarship (Merit-Based)* • *Dean's List (3 Semesters)*

## Projects

- Recognizing Emotions in Poems using BERT:** Fine-tuned BERT model on Kaggle Poem Dataset to classify emotions with higher accuracy than traditional models. Addressed challenges in figurative language interpretation.
- Task Management System using .NET and SQL Server:** Built a web-based system with authentication and task tracking using ASP.NET Core and SQL Server. Enhanced performance for 100+ concurrent users.
- Mobile Adware Detection System:** Built detection engine using XGBoost and Random Forest (94% accuracy). Deployed as Flask API for mobile security applications.
- Secure File Sharing System:** Created platform with AES encryption and JWT authentication using Flask and SQLite. Maintained zero breaches during testing.