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 (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.