

Rohith Kumar Saravanan

Fredericton, NB, Canada

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

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"Full Stack Developer with 3+ years of experience building end-to-end solutions using **.NET, Angular, and Flask**. Combines front-end expertise with robust backend development to deliver scalable applications that improve system efficiency by **25-40%**. Passionate about creating innovative solutions through **AI integration**, architectural optimization, and collaborative problem-solving to deliver seamless user experiences."

Technical Skills

Programming Languages: Python, Java, C#, JavaScript/TypeScript, SQL, C/C++
Frameworks & Libraries: .NET, ASP.NET, Angular, React, Flask, Django, Entity Framework, Spring
Cloud & DevOps: Microsoft Azure, Docker, Jenkins, CI/CD Pipelines
Databases: PostgreSQL, MySQL, SQL Server, MongoDB & Redis (NoSQL)
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 (KVM Virtualization)

Education

University of New Brunswick, Fredericton, NB, Canada Sep 2023 - Dec 2024

Master's degree, Computer Science (CGPA: 4.1) (95.4%) (Top 5%)

Focused on advanced software development, cybersecurity, and management courses, such as Advanced Software Process, Quality Management, and Data Analysis. Equipped with a strong understanding of technical and strategic computing aspects.

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

Sree Vidyanikethan Engineering College (Mohan Babu University), India Aug 2016 - May 2020

Bachelor's degree, Computer Science and Systems Engineering (CGPA: 8.26) (83.2%) (First Class with Distinction)

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

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

Professional Experience

Infosys Hyderabad, India
Digital Specialist Engineer (Full Stack Developer) Sep 2020 - Aug 2023

- Led full-stack enhancements for a warehouse management system using **AngularJS** and **.NET Framework**, delivering new features that improved operational efficiency by **25%**. Deployed the solution via **IIS** for enterprise-scale performance.
- Developed a customizable **Cost Price Quote (CPQ) system** with **.NET Core** and **Angular**, integrated with **Microsoft Azure** and managed via **Azure DevOps**. Implemented a **CI/CD pipeline** and a verification engine that reduced configuration errors by **40%** and increased code efficiency by **30%**.
- Engineered **Flask and Flask-RESTful APIs** for a government project, powering an AI-driven system that identified optimal internet connection routes. Optimized API response times by **35%** through architectural improvements.
- Created a data migration gateway using **Node.js** to seamlessly transition enterprise users from Google to Microsoft services, achieving **99.9% transfer accuracy** with zero downtime.
- Deployed applications on **Microsoft Azure** and **IIS**, managing **PostgreSQL, MySQL, and MS SQL** databases. Enhanced query performance by **40%** through strategic indexing and optimization.

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**
Developed web-based system with authentication and task tracking using ASP.NET Core and SQL Server. Optimized 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.