

# Rohith Kumar Saravanan

Fredericton, NB, Canada

*"Aspiring Software Engineer | Master's in Computer Science | Ex-Digital Specialist Engineer at Infosys*

*Full Stack Development Specialist Committed to Innovation and Excellence"*

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

*"Full Stack Developer with 3 years of experience in building scalable, high-performance applications. Completed Master's in Computer Science at UNB, specializing in AI, cloud computing, and cybersecurity. Strong background in software development, data optimization, and API design. Passionate about creating innovative, maintainable solutions."*

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## Education

**University of New Brunswick, Fredericton, NB, Canada**

**Sep 2023 - Dec 2024**

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

*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.*

**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%)

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

## Experience

**Infosys**

*Hyderabad, Telangana, India*

*Digital Specialist Engineer (Latest)*

**Jul 2020 - Aug 2023**

- **Full-Stack Development & Feature Enhancements:** Led enhancements for a warehouse management system using AngularJS and .NET Framework, working independently to deliver new features. Deployed the project via IIS, improving operational efficiency by 25%.
- **CPQ System Development & Optimization:** Built and optimized a real-time Cost Price Quote (CPQ) system using .NET Core, Angular, and Microsoft Azure, allowing escalator/elevator customization. Developed a verification engine, reducing configuration errors by 40% and enhancing code efficiency by 30%.
- **AI-Powered Backend Development:** Designed Flask and Flask-RESTful APIs for a government infrastructure project, enabling an AI-driven system to determine cost-effective internet connection routes. Optimized API response times by 35%.
- **Enterprise Data Migration & Integration:** Developed a data migration gateway for transitioning enterprise users from Google services to Microsoft services using Node.js, ensuring a 99.9% data transfer success rate with zero downtime.
- **Cloud & Database Optimization:** Deployed applications on Microsoft Azure and IIS, managing PostgreSQL, MySQL, and MS SQL databases, optimizing queries and indexing to enhance performance by 40%.

## Projects

- **Recognizing Emotions in Poems using BERT:** Fine-tuned BERT on a Kaggle Poem Dataset to classify emotions in poems, achieving better accuracy than traditional models, with challenges in figurative language.
- **Task Management System using .NET and SQL Server:** Developed a web-based task management system with authentication, task tracking, and performance optimization using ASP.NET Core and SQL Server.
- **Machine Learning-Based Mobile Adware Detection:** Built a mobile adware detection system using XGBoost and Random Forest algorithms, integrated into a Flask-based API for enhanced mobile security.
- **Secure File Sharing System:** Created a secure file-sharing platform with AES encryption and JWT for authentication and data confidentiality, using Flask and SQLite.

## Extracurricular Activities

**Indian Society for Technical Education (ISTE)**

**Aug 2017 - Apr 2020**

*Contributed to technical initiatives, participated in workshops, and collaborated with professionals to boost engagement.*

**National Service Scheme (NSS)**

**May 2018 - Jul 2019**

*Participated in social service, including plantation and awareness programs, promoting sustainability and teamwork.*

**Mohana Mantra:**

**Aug 2016 - May 2020**

*Volunteered in organizing university events like sports, workshops, and cultural activities, and participated in competitions.*

**Nature Photography**

*Enthusiastic about capturing nature's beauty and sharing my work on a personal website.*

## Skills

Python | Java | C | C++ | TypeScript | JavaScript | HTML | CSS | Flask | Flask-RESTful | C# | .NET | ASP.NET | Entity Framework Core | Angular | SQL | MySQL | NoSQL | MongoDB | SQL Server | PostgreSQL | Machine Learning | Data Analytics | Big Data | Node.js | Django | Pandas | Scikit-learn | Postman | Azure | Windows | Windows Forms | Git | GitHub | Jira | Visual Studio | Visual Studio Code | Agile / Scrum