

Saraswathi Sakthikumar

Software Developer | Permanent Resident

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SUMMARY

- Results-driven **Full Stack Developer** with over **6 years of hands-on experience** in software and ERP development for the **Manufacturing, Public Sector** and **Healthcare** domains
- Strong expertise in **ASP.NET Core, C#, SQL Server, and React**, with hands-on experience in system design, full-stack application development, debugging, performance optimization, and system integration
- Proven experience working with **enterprise-grade ERP architecture** and managing the **full Software Development Life Cycle (SDLC)** using Agile methodologies
- Skilled in **database design and optimization** using **SQL Server and Oracle**, with extensive use of **stored procedures**, query tuning, and data integrity best practices
- Experienced in **reporting and data visualization** using **SSRS and Power BI** to support data-driven decision-making
- Recognized for improving performance of a **high-traffic ASP.NET application**, achieving a **30% reduction in load time**
- Passionate about building reliable, maintainable software solutions that combine **engineering principles, DevOps practices, and emerging technologies** to deliver measurable business value

WORK EXPERIENCE

Full Stack Developer

ARC Business Solutions Inc. | Edmonton, Canada

Oct 2025 - present

- Modernized the **Apply Alberta web application**, migrating a large-scale legacy system to a **modern, scalable, and secure architecture** serving post-secondary applicants across Alberta
- Designed and implemented **end-to-end full-stack features**, including applicant workflows, data validation, and application processing modules, ensuring functional parity while improving performance and maintainability
- Collaborated closely with **business analysts, QA teams, and stakeholders** to analyze legacy functionality and translate complex business requirements into robust technical solutions
- Developed and enhanced **responsive, accessible UI components** using modern front-end frameworks, improving usability and cross-browser compatibility
- Built and maintained **backend services and APIs**, managing application data, integrations, and business rules with a strong focus on security, reliability, and scalability
- Supported **data migration, system integration, and regression testing**, ensuring accurate data transfer and uninterrupted service during transition phases
- Implemented **coding standards, reusable components, and best practices** to reduce technical debt and support long-term maintainability
- Assisted with **production deployments, bug fixes, and performance tuning** in a high-availability, public-facing government application environment.

System Analyst

Durabuilt Windows and Doors | Edmonton, Canada

Oct 2024 - Sep 2025

- Improved system efficiency by 30% by developing and maintaining **.NET 4.8.1 applications** supporting ERP and CRM platforms
- Led projects through the **full SDLC** using **C#, Agile, and Scrum**, accelerating delivery timelines by **20%**
- Optimized application performance by **36%** through debugging, performance tuning, and resolution of system bottlenecks
- Reduced system integration issues by **42%** by designing, implementing, and validating **SOAP and RESTful web services**
- Enhanced reporting capabilities by **24%** through **SSRS report development** and advanced SQL query optimization
- Increased deployment efficiency by **50%** by implementing and maintaining **CI/CD pipelines** for reliable and faster releases
- Resolved **90% of system issues within SLA** by collaborating effectively with cross-functional teams and business stakeholders

Full Stack Developer

Codebuddy Pvt Ltd | Edmonton, Canada

May 2020 to Sep 2024

- Designed, developed, and deployed **scalable web applications** using **ASP.NET Core (MVC), C#, and SQL Server**, improving overall system efficiency by **30%**
- Reduced ticket resolution time by **39%** by troubleshooting and resolving **Level 1 and Level 2 IT support issues** using Zendesk
- Improved database performance by **35%** through schema design, stored procedures, indexing, and **Entity Framework Core** optimization
- Developed **dynamic, responsive, and cross-browser compatible UI pages** using **HTML, CSS, JavaScript, and React**
- Performed **system analysis and database engineering**, including database creation, complex stored procedures, functions, views, triggers, and SQL performance tuning
- Participated in the **complete development lifecycle**: planning, analysis, design, development, testing, and implementation
- Created **data models, design specifications, and dependency analyses** to support scalable application architecture
- Executed **query optimization and performance tuning** across SQL Server 2008, 2010, and 2012 environments

TECHNICAL SKILLS

- **Programming Languages:** C#, .NET 4.8, ASP.NET Core, JavaScript (ES6+), jQuery, ReactJS, Java
- **Web Development:** HTML5, CSS3, Bootstrap 5, RESTful APIs, Razor Pages, Web Forms, Thymelaef
- **Frameworks & Libraries:** ASP.NET (MVC, Web API, WPF, WCF), LINQ, Spring 3.1.2, Hibernate, JDBC, Servlets
- **Databases & ORM:** Microsoft SQL Server, MySQL, Oracle, Entity Framework, LinqToSQL
- **DevOps & Version Control:** Git, GitHub, Bitbucket, Azure DevOps, CI/CD Pipelines
- **Reporting & Visualization:** Power BI, SSRS

PROJECTS

Enterprise & Client Projects (Selected)

- **Apply Alberta (<https://prod.applyalberta.ca>)**
 - Modernization of a **large-scale government web application** supporting post-secondary admissions, including legacy system migration, UI enhancements, backend services, and data integrity validation
Tech Stack: ASP.NET, C#, React, SQL Server, Azure, MySQL, Tailwind CSS
- **Oral Care Portal - 3M**
 - Built a **secure and scalable enterprise portal with analytics, role-based access control, and document management.**
Tech Stack: ASP.NET, C#, React, SQL Server, Azure, MySQL
- **Asset and Operations Tracking System - Lufkin**
 - Developed a platform for **asset tracking, maintenance logging, and operational reporting**
Tech Stack: ASP.NET Core, C#, SQL Server, HTML, CSS, JavaScript
- **CenterPoint & MasterPoint - Durabuilt Doors and Windows**
 - Streamlined order management, production tracking, and reporting processes
Tech Stack: .NET, C#, SQL Server, HTML, CSS, JavaScript

Personal Projects (Selected)

- **Human Resource Management System:**
 - Built an **HR platform** supporting employee records, attendance, payroll, and performance tracking
Tech Stack: .NET, C#, SQL Server, HTML, CSS, JavaScript
- **Hakuna Matata Bank**
 - Developed a **secure banking application** for account management, transactions, and reporting
Tech Stack: .NET, C#, SQL Server, HTML, CSS, JavaScript
- **ASP.Net Quiz:**
 - Created an **interactive quiz platform** with question management, scoring, and user progress tracking
Tech Stack: ASP.NET, C#, Blazor, SQL Server, HTML, Tailwind CSS

EDUCATION

- **BTech in Electronics and Communication**
Kalasalingam Academy of Research and Education, Tamil Nadu, India

COURSES

- Full Stack Java Developer - ComIT, Canada
- Software Engineering Principles - IBM
- Intro to Computational Thinking and Data Science - MIT, USA

CERTIFICATIONS

- Oracle Database SQL Certified Associate
- Java SE 8 Programmer - Certified Associate
- PowerBI Data Analyst Associate
- IBM Full Stack Software Developer Professional Certificate