

Saraswathi Sakthikumar

Software Developer | Permanent Resident

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SUMMARY

- Results-driven **Senior Software Developer** with over **5 years of hands-on experience** in software and ERP development for the **Manufacturing** and **Healthcare** sectors, coupled with **6+ years of instructional experience** in software engineering and programming.
- Skilled in **ASP.NET Core**, **Core Java**, **SQL Server**, and **React**, with a strong track record in **system design**, **application development**, **debugging**, **performance optimization**, and **system integration**.
- Experienced in **commercial and enterprise-level ERP architecture**, full **Software Development Life Cycle (SDLC)**, and modern **DevOps practices**, including **CI/CD pipelines** and **Git-based version control**.
- Proficient in **database design** and optimization using **SQL Server**, **Oracle**, and **Stored Procedures**, and skilled in **data visualization tools** such as **SSRS**, **Power BI**, and **Tableau**.
- Recognized for debugging and optimizing a high-traffic ASP.NET application, **reducing load time by 30%**.
- Driven by a passion for creating innovative software solutions that blend **engineering principles** with **distributed systems**, **machine learning**, and **data science** to drive measurable business impact.

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
- **Debugging & Optimization:** Performance tuning, SQL query optimization, troubleshooting
- **Reporting & Visualization:** Power BI, SSRS

EDUCATION

- **2011** - Bachelor of Technology (BTech) in Electronics and Communication, Kalasalingam Academy of Research and Education, Tamil Nadu, India

CERTIFICATIONS

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

COURSES

- Full Stack Java Developer with ComIT, Canada.
- Software Engineering Principles for Everyone conducted by IBM.
- Intro to Computational Thinking and Data Science from Massachusetts Institute of Technology.

WORK EXPERIENCE

System Analyst

Durabuilt Windows and Doors | Edmonton, Canada | Oct 2024 - present

- Increased system efficiency by 30% by developing and maintaining **.NET 4.8.1 applications** for ERP and CRM systems.
- Led full SDLC using **C#, Agile, and Scrum**, improving project delivery speed by 20%.
- Optimized application performance by 35% through **debugging, performance tuning, and bottleneck resolution**.
- Reduced integration issues by 40% by creating and validating **SOAP and RESTful web services**.
- Enhanced reporting capabilities by 25% by designing **SSRS reports** and optimizing SQL queries.
- Improved deployment efficiency by 50% by implementing **CI/CD pipelines** for faster, reliable software releases.
- Resolved 90% of system issues within **SLA** by collaborating with cross-functional teams and stakeholders.

Full Stack Developer

Codebuddy Pvt Ltd | Edmonton, Canada | May 2020 to Sep 2024

- Developed and deployed scalable web applications using **ASP.NET Core (MVC), C#, and SQL Server**, improving system efficiency by 30%.
- Reduced ticket resolution time by 40% by troubleshooting and resolving **Level 1 & Level 2 IT support issues** via Zendesk.
- Optimized database performance by 35% by designing **SQL Server schemas, stored procedures, and Entity Framework Core ORM mappings**.
- Designed dynamic and multi-browser compatible pages using **HTML, CSS and React**.
- Involved in **system study and database engineering** such as creating databases, Tables, Complex Stored Procedures, Functions, Views, Triggers and SQL Performance Tuning to aid better data manipulation and consistency.
- Involved in the **full development cycle** of Planning, Analysis, Design, Development, and Implementation.
- Designed **Data Modeling, Design Specifications** and analyze **Dependencies**.
- Performed Query Optimization and Performance Tuning in **SQL Server 2008/2010/2012** Databases.

Technical Instructor & Project Mentor

Teacheron.com | India | Feb 2018 to Apr 2020

- Delivered **personalized instruction** in **C#, .NET Framework 4.8, and SQL Server** to students at both school and college levels, tailoring content to skill levels and academic needs.
- Mentored students in **capstone projects**, final-year college projects, and **school-level coding competitions**, resulting in over 85% of projects receiving top grades or recognition.
- Designed and guided **academic software projects** including inventory systems, attendance trackers, library management systems, and web portals using **ASP.NET, Windows Forms, and SQL Server**.
- Developed and delivered structured lessons on **full-stack development**, including **API integration, Entity Framework, and database schema design**.
- Conducted workshops on **SSRS and Power BI**, enabling students to create impactful **data visualization** projects.
- Mentored in **performance tuning and SQL query optimization**, leading to **30% faster load times** in student applications.

Business Development Manager

I.K. Enterprises | India | Apr 2012 to Jan 2018

- Spearheaded **sales and partnership initiatives**, contributing to a **45% increase in revenue** over a 3-year period.
- Identified new market opportunities and expanded the client base through **strategic outreach and relationship building**.
- Led **end-to-end project negotiations**, including pricing, proposals, and contract closures with national and international clients.
- Collaborated with cross-functional teams to **align product development with market demands**, improving customer satisfaction.
- Conducted **market research and competitive analysis**, resulting in targeted marketing campaigns and product positioning.
- Trained and mentored junior sales staff, enhancing team productivity and internal knowledge sharing.

System Engineer

Tata Consultancy Services (TCS) | India | Jan 2012 to Apr 2012

- Assisted in the **development and maintenance of enterprise-level applications**, using Java and SQL technologies.
- Participated in **code reviews, debugging, and unit testing**, ensuring clean and efficient code delivery.
- Supported internal teams in understanding and implementing **technical specifications** and system requirements.
- Documented workflows and contributed to **knowledge management** to support project continuity and scalability.