

# ARULKUMAR MUTHUSAMI

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📍 Ready to relocate

## SUMMARY

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Full Stack Developer with over 3+ years of professional experience in architecting, developing, and deploying scalable web applications and secure APIs across diverse industries. Skilled in the full software development life cycle, from requirement gathering and system design to implementation, optimization, and post-deployment support.

Proficient in building dynamic, high-performance applications using ASP.NET Core, C#, SQL Server, and modern front-end frameworks, with strong exposure to Entity Framework and dynamic CRUD operations. Adept at collaborating with cross-functional teams to deliver business-critical solutions that improve efficiency and user experience.

Known for problem-solving, adaptability, and delivering high-quality solutions under tight deadlines. Passionate about continuous learning and leveraging AI-driven tools to enhance productivity, accelerate development, and drive innovation in software engineering practices.

## SKILLS

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**Programming Languages:** C#, ASP.NET, ASP.NET Core, .NET Core 8, Python, SQL, JavaScript, HTML, CSS, Bootstrap

**Libraries and Tools:** SSMS, Visual Studio, Kendo UI, LINQ, AJAX, jQuery, Entity Framework, Entity Framework Core, MVC, RDBMS, Postman, Asp.net Core API, AWS S3, Azure, Crystal Reports, DevExpress, WPF

**Database Reporting:** Microsoft SQL Server, Stored Procedures, Views, Triggers, Functions, Query Optimization, JSON CRUD, Crystal Reports, DevExpress Reports

**Security Authentication:** JWT, OAuth2, Role-Based Access Control, Single-Login Enforcement, Token-Based Authentication, Secure API Communication

**Other Skills:** Multi-Tenant Architecture, Database Switching, Agile/Scrum, Responsive Web Design, Performance Optimization, ERP Desktop Applications, WPF Custom Controls, Server-Side Filtering

## KEY SKILLS

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**Application Development:** Full-stack application development using .NET Core, ASP.NET MVC, Web API, and WPF to deliver scalable, modular, and maintainable solutions.

**Dynamic Data Handling:** Building APIs with CRUD operations and runtime schema modifications in Entity Framework Core to adapt to evolving business requirements.

**Database Optimization:** Designing normalized relational databases, optimizing stored procedures, views, triggers, and queries to improve performance and scalability.

**API Development Integration:** Developing secure RESTful APIs, integrating third-party services, and implementing role-based access control with token-based authentication.

**UI/UX Implementation:** Creating responsive and intuitive user interfaces using DevExpress, Kendo UI, WPF, and front-end technologies to enhance operational efficiency.

**Debugging Troubleshooting:** Identifying and resolving technical issues, performance bottlenecks, and ensuring smooth production operations.

**Business Process Automation:** Streamlining sales, administrative, and ERP workflows through desktop and web applications, improving efficiency and accuracy.

**Collaboration Agile Practices:** Working in cross-functional teams, following Agile/Scrum methodologies, mentoring juniors, and maintaining clear documentation.

## WORK EXPERIENCE

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### Software Developer

Spac Softwares, Tamil Nadu, India

May 2024 – Present

- Built and deployed a comprehensive **ERP system** in-house using **.NET Core 8, SQL Server, and WinForms**, eliminating dependency on third-party ERP solutions and saving the organization nearly **40% in annual licensing and subscription costs**.
- Implemented secure **JWT-based token authentication** to handle user authorization and session validation across all platforms, ensuring robust security for ERP operations.
- Designed **scalable APIs** and advanced **SQL procedures** with support for **runtime model creation**, enabling dynamic CRUD operations without predefined entity models and reducing release overhead during database changes.
- Developed modular ERP components such as **sales, reporting, and administration**, with a **group-based data access system** stored in the database. Instead of blocking controllers, data visibility was dynamically restricted (e.g., certain groups could view “Products” while others could not), ensuring flexible and secure access management.
- Implemented a dynamic **connection string management** mechanism, enabling smooth switching between tenants during deployment and optimizing multi-tenant onboarding. This reduced onboarding time by **40%** and accelerated release cycles.

### Associate Developer

Laserbeam Software, Tamil Nadu, India

June 2022 – February 2024

- Contributed to the development and enhancement of enterprise web applications built on **ASP.NET** and **C#**, implementing new customer-requested features and improving existing modules to align with business requirements.
- Optimized database operations by creating efficient **stored procedures** and leveraging **ADO.NET** for bulk operations, reducing query execution time and minimizing redundant code by approximately **30%**.
- Enhanced application security by implementing a **two-step authentication system** using **email OTP verification**, strengthening data protection and reducing unauthorized access incidents.
- Provided production support by troubleshooting **ASP.NET and MSSQL-related issues**, resolving critical errors, and ensuring high system uptime (**99.9% availability**).
- Collaborated with **business analysts, QA engineers, and Azure teams** to streamline project delivery, while also integrating with **AWS S3** for secure file and report storage.

### Full-stack Developer Intern

Wisetech Source, TamilNadu, India

April 2022 - June 2022

- Gained invaluable experience in full-stack .NET development, learning key concepts that served as a foundation for career growth.
- created a CRUD-based web application using ASP.NET Core MVC, integrating it with SQL Server for database connectivity.

## EDUCATION

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**Bharathidasan University (Periyar E.V.R. College, Autonomous)**

Bachelor's Degree - Physics

Tiruchirappalli, TamilNadu, India

June 2017 - March 2020

**Sri Vengateshwara Hr.sec School**

12th grade

Salem, TamilNadu, India

June 2016 - March 2017

## CERTIFICATIONS

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- .NET Core 8 WebAPI with Entity Framework Core
- ISO 27001:2013 - Awareness Workshop