TRISHNA PATTANAIK
Lead Software Engineer

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Summary

Full stack Software Developer with 7+ years of experience in designing, building, and scaling enterprise applications. Proficient in .NET Framework (C#, VB.NET), .NET Core, Microservices architecture, Angular, and ReactJS. Adept at leading agile teams and delivering robust solutions across manufacturing, healthcare, education, and e-commerce domains. Key contributor to Arcstone's MES solutions with proven expertise in both cloud and on-premise deployments. Passionate about clean code, system scalability, and solving complex business challenges through technology.

Work

Arcstone Pte. Ltd. (Singapore)
Lead Software Engineer (Oct 2019 - Present) | Remote | Full Time
Responsibilities
- Led end-to-end development and architecture of enterprise-level applications using .NET Framework (C#, VB.NET), .NET Core (C#, MVC), and modern JavaScript frameworks such as Angular and ReactJS.
- Designed and implemented scalable solutions to support modular development and efficient deployment strategies.
- Acted as a full stack developer across multiple projects
- Mentored junior developers, performed code reviews, and ensured adherence to coding standards and best practices. Collaborated with cross-functional teams including QA, DevOps, and Product Management to deliver high-quality features on time.
- Experienced in continuous integration and deployment (CI/CD) practices and cloud-readiness for key solutions.

Project Highlights
- **arc.lite / arc.ops** – Delivered a lightweight, advanced MES (Manufacturing Execution System) platform tailored for operational agility and efficiency.
- **E-Forms** – Developed a dynamic form builder platform to empower users to design, configure, and deploy electronic forms without code.
- **Smart Factory (Client)** – Engineered a cloud/on-premise MES solution enabling real-time production monitoring, data analytics, and workflow automation for smart manufacturing setups.

Stellar Data Solutions Pvt. Ltd. (India)
Software Developer (Oct 2017 - Sep 2019) | Chandigarh, India | Full Time
Responsibilities
- Worked as a full stack developer, contributing to the development and maintenance of web applications using .NET Framework (C#), .NET Core (C#, MVC), and AngularJS.
- Developed and consumed RESTful APIs, implemented business logic, and ensured seamless integration between front-end and back-end components.
- Participated in all phases of the software development lifecycle, including requirement analysis, design, coding, testing, and deployment.
- Collaborated with UI/UX teams to enhance user experience and ensure responsive, cross-browser compatible web interfaces.
- Actively contributed to sprint planning, daily stand-ups, and agile delivery processes, ensuring timely feature completion and release.

Project Highlights
- **Banner Health** – Built and maintained a healthcare appointment booking platform, enabling streamlined patient scheduling and management.
- **Khadamat** – Developed a feature-rich e-commerce application supporting product browsing, secure checkout, and user account management.
- **CampusLive** – Contributed to a comprehensive school management system offering modules for attendance, grade tracking, communication, and scheduling.

Education

Birla Institute of Technology & Science, Pilani (India)
Master of Technology, Cloud Computing (2024 - Present) | Part Time

Biju Patnaik University of Technology, Odisha (India)
Bachelor of Technology, Computer Science (2013 - 2017) | Full Time | 7.9 GPA

Kendriya Vidyalaya Cuttack, Odisha (India)
High School (12th) | 2012-2013 | Full Time | 74.9%

High School (10th) | 2010-2011 | Full Time | 9.8 GPA

Technical Skills

Back-End Technologies
- **.NET Framework (5/6/8) / .NET Core:** Experience in building RESTful and scalable APIs and web applications using C# and VB.NET.
- **Entity Framework Core:** Proficient in ORM mapping, LINQ querying, and handling code-first & DB-first migrations.
- **ADO.NET** Hands-on experience with ADO.NET for low-level data access, using SqlConnection, SqlCommand, DataReader, and DataSet to manage complex queries and ensure high-performance data operations.
- **Microsoft SQLServer:** Strong experience in designing, optimizing, and managing MS SQL Server databases, writing complex stored procedures, indexing strategies, and performance tuning.
- **Node.js:** Built RESTful APIs, background workers, and utility scripts using Node.js with DevExpress and related libraries.
- **Python:** Knowledge in scripting, automation, data analysis, and building ML models using Python, leveraging libraries like NumPy, pandas, Flask.
- **AI/ML:** Knowledge of AI and ML concepts, with experience in building predictive models using tools like Python (scikit-learn, pandas) and integrating them into applications.

Front-End Technologies
- **ASP.NET MVC / .NET Core MVC:** Developed responsive web UIs using Razor views.
- **Angular:** Experienced in building responsive, component-based single-page applications (SPA).
- **React:** Proficient in building dynamic web interfaces using React, with hooks.
- **HTML / CSS / Javascript / JQuery:** Skilled in creating intuitive and responsive UI using HTML5, CSS3, and interactive behaviors with jQuery.
- **Bootstrap::** Proficient in using Bootstrap to design mobile-first, responsive layouts with prebuilt components and utility classes.
- **DevExpress:** Experienced in building data-rich, interactive UIs using DevExpress components.

Architecture & Design Patterns
- **Microservices Architecture:** Designed and implemented modular, scalable, microservice based systems adhering to domain-driven principles.
- **Monolithic Architecture:** Hands-on experience building and maintaining large-scale monolithic applications, including refactoring and migrating them toward service-oriented or microservice based architectures.
- **Design Principles:** Strong grasp of SOLID principles, **Domain-Driven Design (DDD)**, and **CQRS** for clean architecture.
- **Unit Testing (NUnit / XUnit):** Experience in writing automated unit tests using NUnit, XUnit and Moq.
- **Integration Testing:** Capable of building end-to-end test scenarios that validate data flow and service integration across multiple modules / microservices using testing frameworks and tools.

Messaging Systems
- **RabbitMQ:** Implemented message-driven architecture using RabbitMQ for asynchronous communication between microservices, ensuring decoupling and fault-tolerance.
- **Apache Kafka:** Used Kafka for high-throughput, real-time data streaming and event-driven systems, integrating producers, consumers, and managing partitions and offsets.
- **SignalR:** Integrated SignalR for real-time web functionality like live dashboards, notifications, etc.

Cloud Tools
- **DevOps:** Involved in DevOps practices such as CI/CD pipeline setup, infrastructure automation, deployment scripting, and monitoring using tools like Azure DevOps, Jenkins, or GitHub Actions.
- **GitOps:** Experience managing infrastructure and application deployments through GitOps principles.
- **Docker/Kubernetes:** Containerized applications using Docker and orchestrated them using Kubernetes for scalability, high availability, and environment consistency across development and production.

Development Methodologies
- **Agile:** Worked in Agile/Scrum teams, participating in sprint planning, reviews, retrospectives, and daily stand-ups, focusing on iterative delivery and continuous improvement. Experienced in using Jira for task tracking, sprint management, and progress reporting.
- **Version Control:** Proficient in Git-based workflows using GitHub and GitLab, including branching strategies, pull requests, and code reviews.

Soft Skills

- **Strong Communication:** Strong in technical documentation & cross-team discussions
- **Effective Team Collaboration:** Collaborated seamlessly with cross-functional team.
- **Good Leadership:** Mentored developers and led agile delivery across modules
- **Problem Solving:** Skilled at debugging and root cause analysis
- **Adaptability:** Comfortable across tech stacks, projects, and fast-paced environments
- **Ownership & Accountability:** Accountable for complete SDLC, from design to deployment