PRIANKA MONDAL

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Career Summary

- **Four years nine months of experience in full-stack software engineering** with expertise in **C#, Java, JavaScript, and TypeScript**.
- Developed enterprise-level applications using **ASP.NET Core, Java Spring Boot, Angular, React and SQL**, contributing to significant revenue growth.
- Implemented **scalable REST APIs, GraphQL and background workers** using .NET Core and Entity Framework, enhancing management effectiveness.
- Has experience with DBMS technologies, including **SQL Server**, and is proficient in database programming and connectivity using **MSSQL, MySQL, and queries**.
- Designed **microservices for scalability, Docker containerization,** autonomy, and communication via **RabbitMQ, Erlang OTP, and gRPC**, resulting in improved performance and reliability.
- Utilized Angular to develop **reusable components, custom directives, pipes, decorators, and services**, seamlessly connecting with both RESTful services and DOM applications.
- Contributed to **micro-frontend development** to transition from monolithic architectures to modular components, improving scalability, maintainability, and streamlining deployment.
- Utilized **NgRx for state management, RxJS for asynchronous programming** in Angular, and successfully contributed to **micro-frontend development** for modular and scalable web applications.
- Familiar with pair programming, test-driven development, waterfall model, and agile methodologies such as SCRUM.
- Proficient in **Git version control**, CI/CD pipeline implementation for **automated testing and deployment**, and Artifactory management for efficient **artifact versioning and release management** in software development.
- Well-versed in working with team members from vendors and internal departments to coordinate activities across multiple applications.
- Proficient in managing the full **software development life cycle**, from concept through design, planning, diagramming, programming, testing, and deployment.
- Skilled in utilizing **debugging** tools and using **unit testing** frameworks such as **Jasmine, Karma**, and ensuring code consistency through **ESLint and SonarLint** for clean and maintainable code.

Skills

Languages	: C#, Java, JavaScript, TypeScript. Phython.
Frameworks	: ASP.NET Core, Entity Framework, Java Spring Boot, Angular, React, NgRx, RxJS
Architecture/ Libraries	: Monorepo, Nx, Module Federation, Micro-frontend, Microservices
DevOps	: Docker, Kubernetes, RabbitMQ, gRPC
Databases	: MSSQL, MySQL
Web Services	: REST, GraphQL, SOAP, JSON
Web/App Servers	: Kestrel, IIS, Apache
Methodologies	: Agile (Scrum), Waterfall
Tools	: Visual Studio, VSCode, Eclipse, Git, Jira, Confluence, Figma
Testing & Quality	: Jasmine, Karma, Jest, JUnit, ESLint, SonarLint
Research Fields	: Machine Learning, Deep Learning, Neural Network

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Professional Experience

Blue Streak Technologies, LLC (Denham Springs, Louisiana)   **January 2024 – Present**
Application Developer

- Developed a robust project management tool **for the Louisiana Transportation Research Center, a state agency, to track all research-based projects, problem statements, publications, and presentations** using C#, ASP.NET Core, React, and SQL. **This solution significantly improved operational efficiency and enabled**

better analysis of continuous problem statement inputs, supporting enhanced road and transportation planning.

- Built scalable GraphQL APIs and background services with .NET Core and Entity Framework to streamline license and user role management.
- Architected the application using Clean Architecture principles to ensure modularity, testability, and long-term maintainability.
- Created dynamic, responsive front-end interfaces in React with Apollo Client integration for GraphQL communication, leveraging reusable components and Material UI to accelerate development.
- Designed optimized database schemas aligned with business workflows and delivered tailored client reports; ensured application reliability through performance monitoring with Telemetry Services and containerized deployments via Kubernetes and GitHub Container Registry.

Technologies Used: C#, ASP.NET Core, GraphQL, TypeScript, JavaScript, React, SQL, Kubernetes, Docker, Git, Jira

Advanced Software Development (Dhaka, Bangladesh)   **February 2020 – January 2023**
Full-stack Software Engineer

- Developed enterprise-level applications using C#, ASP.NET Core, Angular, and SQL, leading to substantial revenue growth.
- Implemented scalable REST APIs and background workers using .NET Core and Entity Framework to enhance management effectiveness.
- Designed Microservices for scalability, Docker containerization, autonomy, and communication via RabbitMQ, Erlang OTP, and gRPC, boosting performance and reliability.
- Developed micro-frontends for modularity and scalability using Nx and Module Federation. Implemented state management with Angular's NgRx.
- Accelerated up development by 40% with UI enhancements involving custom directives, pipes, decorators, and reusable components, alongside the use of RxJS for handling asynchronous operations.
- Improved Angular app security with JWT tokens and ASP.NET Core Identity. Skilled in testing and debugging using tools like Chrome Developer Tools and unit testing frameworks like Jasmine and Karma.
- Designed efficient databases aligned with business needs and developed client-specific reports using DevExpress tools.

Technologies Used: C#, ASP.NET Core, Microservices, TypeScript, JavaScript, Angular, Micro-frontend, SQL, gRPC, RabbitMQ, Nx, Module Federation, RxJS, NgRx, DevExpress, Git, Jira, Jasmine, Karma

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Academic Projects

- **Kapri Framework:** This framework streamlines application development with features like automated class instantiation, versatile dependency injection, effortless value injection, profile customization, task scheduling, and event-driven communication. This comprehensive toolkit enhances development while maintaining flexibility. Utilized Java, Spring
- **Walk With Me:** An academic project built using React for the frontend and Java (Spring Boot) for the backend. It is an online shoe store that allows users to browse, search, and purchase footwear. The platform features user authentication, product listings, and a shopping cart to simulate a real-world e-commerce experience.
- **Travel Destination:** This project highlights attractive destinations, simplifies searches, and streamlines admin management. Leveraging cutting-edge technologies, the project is built using Angular (Version 16) for a dynamic and responsive frontend, coupled with Node.JS and Express to ensure a robust backend infrastructure.
- **Library Management:** User-friendly library management system for efficient book checkouts, accurate tracking, and streamlined administration, providing organized library experience. Technologies used: Java, Swing

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Education

- **Master of Science in Computer Science**
  Maharishi International University
  Fairfield, Iowa 52557, USA

- **Bachelor of Science in Computer Science and Engineering**
  Stamford University
  Dhaka 1217, Bangladesh
  Graduated on May 2019