Subodh Barakoti

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PROFESSIONAL SUMMARY

Software Engineer with a focus on software development, specializing in effective problem-solving. Skilled in JavaScript (JS, jQuery), .NET Core (Web API, MVC, and Blazor), React and Python (FastAPI) applying these technologies to solve complex challenges. Recognized for strong organizational skills, a personable nature, and the ability to build lasting relationships with clients, colleagues, and external stakeholders. Demonstrates excellent communication and interpersonal abilities, with a versatile approach to adapting to different work environments.

PROFESSIONAL EXPERIENCE

Acme Software, Ohio, US—Software Engineer

January 2025 - Present

- Worked on backend development using .NET Core, creating scalable and maintainable APIs while implementing secure and efficient business logic.
- Utilized React with Redux for frontend development and state management, ensuring seamless user experience through dynamic and responsive UI components.
- Integrated MySQL as the primary relational database, handling schema design, query optimization, and data consistency across various environments.
- Employed Docker for containerization of applications, streamlining development and deployment workflows to maintain consistency across teams and systems.
- Participated in a separate project utilizing Python for backend services and Flutter for the frontend interface; although not directly involved in Flutter development, contributed by running and integrating the codebase as needed.
- Leveraged PostgreSQL as the backend database, ensuring data reliability, performance tuning, and structured data access.
- Integrated multiple third-party services including Pinterest, WhatsApp, Facebook, and payment gateways such as Stripe, Google Pay, and Apple Pay to extend application functionality and improve user engagement.

Codeology Tech Pvt. Ltd., Kathmandu—Software Developer

June 2023 - December 2024

- Worked with .NET Core to develop robust backend solutions for scalable and efficient applications, collaborating with cross-functional teams to deliver high-quality software.
- Gained hands-on experience with SQL Server (MSSQL) and PostgreSQL for managing relational data, optimizing queries, and ensuring data integrity across different environments.
- Applied knowledge of MVC architecture to build maintainable web applications, promoting a clean separation of concerns and enhancing code reusability.

- Integrated Git for version control, collaborating on projects via GitHub, Bitbucket, and GitLab to ensure smooth code management, continuous integration, and deployment pipelines.
- Contributed to maintaining high code quality by conducting peer code reviews, suggesting improvements, and following best practices.
- Gained experience with frontend technologies such as Angular, React, and Blazor to seamlessly integrate backend services with dynamic user interfaces.
- Worked with Docker for containerization, streamlining the development, testing, and deployment processes, ensuring consistency across environments.
- Collaborated effectively with cross-functional teams, including frontend developers, QA engineers, and product managers, to ensure alignment with project goals and client requirements.
- Gained practical exposure to advanced database technologies such as Dapper for fast and efficient data access, and worked extensively with stored procedures for optimized query execution.

EDUCATION

KATHMANDU BERNHARDT COLLEGE,

Kathmandu— *Bachelors of Science in Computer Science and Information Technology*

November, 2018- July, 2023

Completed my bachelors degree with a good grade, gaining necessary theoretical skills required for a software engineer.

SKILLS

- **Programming Languages**: C#, JavaScript, HTML5, CSS, jQuery, Python
- **Technologies**: .NET Core, WebAPI, MVC, Blazor, FastAPI, React, Angular, Docker
- **Database Management**: MS SQL, MySQL, PostgreSQL
- **ORMs and Frameworks**: Entity Framework, LINQ, Lambda
- **Frontend Frameworks and Libraries**: React, Angular, Bootstrap, Tailwind
- **Version Control**: Git, GitHub, Bitbucket, GitLab
- **Containerization**: Docker

PROJECTS

Inmate Tracking System
- Developed the backend using .NET Core Web API, focusing on scalable and maintainable architecture to manage inmate data efficiently.
- Implemented the admin portal using React with Redux for state management, enabling dynamic and real-time updates across the interface.
- Used MySQL as the primary database, handling schema design, optimized querying, and maintaining data integrity across multiple modules.
- Integrated Docker to containerize services, ensuring consistent environments across development, staging, and production.

Social Media Manager

- Contributed to a Python-based backend application, working closely with the team to manage integrations, configurations, and deployments.
- Coordinated the Flutter frontend setup and successfully ran and integrated it within the larger ecosystem (though not directly involved in coding the UI).
- Utilized PostgreSQL as the database to manage complex relational data structures, ensuring high performance and data consistency.
- Integrated multiple third-party services including Pinterest, WhatsApp, Facebook, and payment providers such as Stripe, Google Pay, and Apple Pay for seamless social and financial connectivity.

LMS (Learning Management System)

- Developed applications using .NET Core (Web API) and Angular with MS SQL Server as the database for efficient data management and scalability.
- Worked on microservice architecture and implemented multi-tenancy for scalable, isolated, and efficient application management.
- Integrated third-party payment solutions, such as RazorPay, to enable secure and seamless payment processing within the application.
- Used Dapper with MS SQL and stored procedures for efficient data access and optimized database operations.
- Integrated email and SMS services to send notifications and messages to users efficiently.

Dating App

- Developed applications using .NET Core (Web API) and React for admin portal leveraging MS SQL Server as the database for efficient data management and scalability.
- Integrated third-party payment solutions, such as Stripe, to enable secure and seamless payment processing within the application.
- Developed and exposed APIs to support the mobile team, enabling seamless integration and data exchange between the mobile application and backend services.
- Designed and implemented reports for various modules, with built-in functionality to export data to Excel and PDF formats for easy analysis and sharing.
- Utilized EF Core for efficient querying and data manipulation within the database, and employed Fluent Migrator to manage and automate database migrations, ensuring smooth schema updates.

ActivityMIS (Management Information System)

- Developed applications using .NET Core (Web API and Blazor) with a microservices architecture, leveraging MS SQL Server as the database for efficient data management and scalability.
- Integrated 3rd party like kobo tool box for storing and retrieving on field data.
- Encrypted the database columns for hiding sensitive information regarding the user.
- Created Reports for various modules in tabular as well as graphical form, with functionality to export those reports to excel, pdf.
- Utilized EF Core for efficient querying and data manipulation within the database, and employed Fluent Migrator to manage and automate database migrations, ensuring smooth schema updates.
- Created functionality for importing excel file and generating reports (tabular and graphical) based on the data collected for the excel file.
- Used Docker in my application for containerization, enabling consistent environments across development, testing, and production, and simplifying deployment and scalability.

HRMIS (Human Resources Management Information System)
- Developed using .Net Core (WebApi and MVC) and used MsSQL as a database.
- Integrated APIs with AWS S3 for cloud-based image and file storage solutions.
- Encrypted the database columns for Sensitive Information regarding employees, payroll, etc.
- Created Reports for various modules, with functionality to export those reports to excel, pdf.
- Used stored procedure for querying and manipulating data in a database.

Fintech Application
- Worked with .NET Core for the backend and React for the frontend to develop scalable and efficient solutions.
- Implemented features based on client requirements and specifications.
- Developed and integrated APIs for seamless communication between services.
- Utilized PostgreSQL for reliable and high-performance data storage.
- Worked with Dapper and stored procedures (functions) for efficient data querying and manipulation.