

Aashish Manandhar

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Enthusiastic software engineer with 7+ years experience participating in the complete product development lifecycle of successfully launched applications. Dedicated Technical skill with experience in development across different software fintech companies and banks with proven ability to create a positive and imaginative learning environment . I have been recognized for my work in enhancing the learning experience for organizations . I am skilled at developing new ways to deal with issues while challenging and inspiring them to deepen their knowledge and understanding .

I pursued my Master's at St.Xavier's College, Tribhuvan University. I do have excellent academic qualifications with securing above first division in all my educational history . Moreover, I also have brilliant analytical and technical skills as I am good in programming, web developing, finance, mathematics and most importantly in presenting my ideas effectively.

Key Responsibility and Skills

- ➔ Develop full-stack fintech apps using .NET Core, .Net Framework, Php, Laravel, React, and Angular with TypeScript.
- ➔ Build and test secure REST/SOAP APIs for payment gateways and banking systems.
- ➔ Implement JWT and OAuth for secure authentication in fintech platforms.
- ➔ Create microservices with .NET Core/Laravel, deployed via Docker on AWS/Azure.
- ➔ Optimize SQL/NoSQL queries (MySQL, PostgreSQL, MongoDB) for financial data.
- ➔ Maintain CI/CD pipelines with GitHub Actions/Azure DevOps for automated deployments
- ➔ Write unit/integration tests using xUnit/PHPUnit to ensure code reliability.
- ➔ Collaborate in agile teams, contributing to sprints and feature delivery
- ➔ Ensure compliance with KYC/AML and GDPR in fintech applications.
- ➔ Enhance app security against vulnerabilities like SQL injection and XSS.
- ➔ Share knowledge via pair-programming and team collaboration
- ➔ Document code and APIs using Swagger for maintainability
- ➔ Adopt emerging trends like AI, Web3, and serverless for fintech solutions.
- ➔ Collaborate in agile teams to deliver fintech features like KYC/AML workflows.
- ➔ Code open banking APIs for account aggregation and payment initiation.

Experiences

DECEMBER, 2023 – PRESENT

Software Engineer | Citizens Bank International | Thapathali, Kathmandu, Nepal

a) Fintech Applications

- ➔ Designed and developed scalable web applications using **ASP.NET Core** and **.NET Framework**, leveraging microservices architecture and adhering to clean code principles for maintainability and performance.
- ➔ Integrated with **XML-based Finacle services**, implementing efficient **parsing of XML data into JSON** using libraries like Newtonsoft.Json and System.Text.Json, enabling seamless data interoperability across systems.
- ➔ Built and maintained RESTful APIs to support mobile and web client requests, ensuring adherence to **REST principles**, and developed **GraphQL** APIs to provide flexible, client-driven data querying, optimizing response payloads and reducing over-fetching.
- ➔ Implemented secure API endpoints with **HMAC, JWT, and OAuth 2.0 authentication** mechanisms, integrating with identity providers and ensuring robust authorization flows to protect sensitive banking operations.
- ➔ Managed data persistence and querying using **Oracle Database**, writing **optimized SQL** stored procedures and utilizing **Entity Framework Core, Dapper** for ORM-based data access, improving query performance and scalability.
- ➔ Configured and managed user roles and permissions via Active Directory, integrating with JWT-based authentication and OAuth flows to enforce secure, role-based access control aligned with enterprise security standards.
- ➔ Mentored junior developers on best practices in .NET Core, secure coding, and database optimization, resulting in a 25% improvement in team code quality metrics.

b) AML Projects / Applications and In house Applications

- ➔ Developed a responsive frontend using HTML5, CSS3, jQuery, and JavaScript (ES12+).
- ➔ Designed screening processes for account opening (individual and institutional), integrating with **CIB Blacklist, PEP, IRR, and Hot List checks**, and generating compliance and remittance reports as per regulatory standards.
- ➔ Optimized database performance through query tuning and **indexing, leveraging Dapper for efficient multi-database connections** and ensuring seamless data operations in a **serverless architecture**.
- ➔ Collaborated in Agile environments, adhering to best practices like Test-Driven Development (TDD) and code reviews to deliver high-quality, maintainable code.
- ➔ Designed and developed high-performance web applications using **ASP.NET and .NET Core**, leveraging **microservices architecture and serverless computing** to ensure scalability and cost efficiency.

AUGUST, 2022 – DECEMBER, 2023

Software Engineer | Laxmi Sunrise Bank | Maharajgunj, Buddhanilkantha, Nepal

Fintech Applications and APIs:

- ➔ Led the integration of top Nepalese payment gateways (IME Pay, Khalti, eSewa) into a fintech remittance application.
- ➔ As a backend API developer, contributed majorly to mobile application support by creating scalable
- ➔ Led the development of a mission-critical **Account Opening System using ASP.NET Core and .NET 8**, enabling seamless account creation for retail and corporate clients with **a 40% reduction in processing time through optimized API workflows**.
- ➔ Integrated with Finacle XML services by preparing and mapping API requests from web and intranet applications, **handling XML-to-JSON parsing**.

- ➔ Developed secure RESTful APIs with **JWT authentication and rate limiting**, supporting requests from multiple channels (mobile banking) and ensuring compliance with banking regulations.
- ➔ Collaborated in Agile teams to conduct code reviews, automate testing with **xUnit**, and **deploy via CI/CD pipelines**.
- ➔ Optimized complex SQL queries and stored procedures in **MS SQL Server**, **utilizing indexing** and partitioning to support large-scale reporting, reducing query execution time by 30%.
- ➔ Built real-time account verification notifications **using SignalR**.
- ➔ Designed accessible, dynamic UIs with Tailwind CSS 3, Angular Material, and Shadcn/UI, incorporating jQuery for DOM manipulation and Framer Motion for animations, ensuring WCAG 2.2 compliance for intranet and web channels.

APRIL, 2019 – JUNE, 2022

Software Engineer | Kumari Bank | Bagbazzar, Kathmandu, Nepal

Fintech Applications and other APIs:

- ➔ Designed and developed a **dispute management system using Laravel(PHP)**, integrating with Finacle services to manage dispute lifecycle (raise, status updates, settlement) from branches to card operations
- ➔ Developed views and **scheduled tasks for cron job-based reporting**, enabling automated generation of dispute status reports for stakeholders.
- ➔ Maintain **CI/CD pipelines with GitHub Actions/Azure DevOps** for automated deployments.
- ➔ Leveraged **Azure Service Bus for event-driven architecture**, enabling asynchronous messaging between microservices to handle account creation workflows across retail and corporate clients.
- ➔ Utilized **Azure Cosmos DB for storing dynamic user metadata alongside MongoDB**, optimizing for high-throughput, low-latency access in a globally distributed environment.
- ➔ **Orchestrated CI/CD pipelines using Azure DevOps and GitHub Actions**, automating build, test, and deployment processes for microservices, reducing deployment time by 40%.
- ➔ Ensuring **loose coupling and scalability** while mentoring on Azure best practices.

APRIL, 2018 – OCTOBER, 2018

Frontend Software Engineer | KITE Nepal | Bhaktapur, Nepal

- ➔ Wrote extensive unit and integration test cases with Jest 29 and React Testing Library, supplemented by end-to-end (E2E) tests using Playwright, achieving 95% code coverage for components.
- ➔ Leveraged TanStack Query for data fetching, caching, and synchronization with Azure-hosted APIs, optimizing performance with React Server Components (RSC).
- ➔ Designed accessible, responsive UI components with Tailwind CSS 3 and Shadcn/UI library, incorporating animations using Framer Motion for intuitive user interactions.
- ➔ Optimized bundle sizes with Vite build tool and code-splitting, implementing lazy loading and memoization to handle high-traffic intranet and web channels.

JANUARY, 2018 – DECEMBER 2018

Frontend Software Engineer | Citytech Pvt Ltd | Kamaladi, Kathmandu, Nepal

- ➔ **Architected and developed a high-performance remittance platform frontend using Angular 18** for complex forms and state management.
- ➔ **Integrated with React 19 components via micro-frontends** in an Nx monorepo, enabling seamless money transfer workflows for international and domestic remittances.
- ➔ Implemented secure authentication using **Auth0 and Azure AD B2C with OAuth 2.0, OpenID Connect**, and **wrote comprehensive unit test cases using Jasmine and Karma** for Angular components/modules, and Jest 29 with React Testing Library for React hooks/components.
- ➔ Designed responsive, accessible UIs with **Angular Material and Tailwind CSS 3**, incorporating Shadcn/UI for React parts and Framer Motion for smooth animations in transaction tracking dashboards.
- ➔ Optimized performance with Angular's signals and React's concurrent mode, implementing **lazy loading**, code-splitting via Vite/Angular CLI, and **server-side rendering (SSR)**.
- ➔ Conducted integration testing for remittance features, **mocking API responses with MSW**, and automated **CI/CD pipelines in Azure DevOps** to run Jest/Jasmine tests, ensuring zero-downtime deployments.

Teaching Experience:

JUNE, 2025 – CONTRACT

Teacher/Instructor | IIMS Lincoln University | Kathmandu, Nepal

- ➔ Taught OOP concept, programming languages(JS framework, libraries, C#, APIs), backend development, databases, versioning tools, testing and deployments to master level students
- ➔ Developed and implemented lesson plans, tailored to students' diverse learning needs.
- ➔ Utilized modern educational tools and resources, enhancing student engagement and understanding.
- ➔ Provided one-on-one mentoring and support to students, helping them achieve academic and personal development goals.
- ➔ Led practical programming workshops, where students built small-scale projects, fostering critical thinking and problem-solving skills
- ➔ Conducted after-school tutoring sessions, providing personalized support to students struggling with core concepts.

Awards, Fellowships, Grants

- ➔ Achieved **Golden Jubilee Scholarship (Indian Scholarship)**.
- ➔ **Secured top 3 position** in board exam intermediate level.
- ➔ Had secured **top 10 position during Bachelor**.
- ➔ Secured **2nd position in AVM Science IT Quiz**.
- ➔ Participated in every Blood Donation Program of St. Xavier's College.
- ➔ Secured **1st position** in Manandhar Futsal Tournament.
- ➔ Participated in InterCollege Football Competition.

Education

2020-2023 AD

Master in Business Studies | Tribhuvan University | St. Xavier's College, Kathmandu, Nepal

3.3 GPA • First Division

2014-2018/19 AD

Bachelor in Information Management or Bachelor of Information Technology Management | Tribhuvan University | St. Xavier's College, Kathmandu, Nepal

3.45 GPA • First Division

2012-2014 AD

Intermediate Level In Computer Science | HSEB | Kathmandu Model College, Kathmandu, Nepal

71.70 % • First Division

2001-2012 AD

School Leaving Certificate | SLC Board | Adarsha Vidya Mandir, Lalitpur, Nepal

76.13 % • First Division

Technical Skills

- Programming Languages:
 - VB .NET, C#, .NET Framework, ASP .NET, ASPNET CORE (V3.1 AND Higher), MVC, EF, ADO .NET, Entity Framework, Dapper, LINQ, REST, JSON, XML, JS/CSS/HTML/TAILWIND/HTML5, Javascript, JQuery, AJAX, Bootstrap, OOP, Finacle Integrator.
 - PHP, Laravel, React JS, Angular TS
- Databases:
 - MSSQL, Oracle, SQL Server, PL/SQL, Postgres, MySQL
- Tools:
 - Visual Studio Code, Visual Studio, SSMS
- PM Tool :
 - Jira, GitLab/github/bitbucket
- Web server:
 - IIS, Apache, Nginx, Nodejs with Express, Azure Static Web Apps
- SDLC
 - Agile, Waterfall

References

1) Mr.Surya Raj Ghimire

- i. Relation: Lead Software Engineer
- ii. Department : Development and Automation
- iii. Organization : Laxmi Sunrise Bank
- iv. Contact Info : 9846422376

2) Mr.Bimal Kumar Adhikari

- i. Relation: HOD
- ii. Department : Digital and Automation
- iii. Organization: Kumari Bank
- iv. Contact No : 9851182447