Himal Gyawali

Full Stack Developer | .NET | C# | React.js | SQL | AWS | CI/CD Deployment

205 Bavarian St, Middletown, OH 45044 | **gyawalihimal8@gmail.com | (513) 462-7313 | linkedin.com/in/himalgyawali | gyawalihimal.com.np**

Summary

Full Stack Developer with 3 years of experience building and deploying scalable web applications using React.js and .NET Core. Proficient in SQL, AWS, RESTful API design, and CI/CD pipelines, with a strong foundation in agile development and end-to-end system integration.

Education

Miami University, Oxford, Ohio   August 2023 - August 2025

Master of Science (MS) in Computer Science

GPA: 3.83

Relevant Coursework- Computer Science Research Methods, Advanced Networks, Intro to Artificial Intelligence, Model-Driven Software Engineering, Software Testing, Empirical Software Engineering, Comparative Programming Languages

> **Projects -**
> (1) A Slicing-Based Approach for Detecting and Patching Vulnerable Code Clones
>   - Primary contributor (70+ commits) under faculty GitHub [[srcVul](#)], personal repo: [[VulDetector](#)]
> (2) Automatic C# code generation from Class diagrams
> (3) Investigating the code features of the generated code by ChatGPT in the DevGPT dataset
> (4) Multi-Machine System Development with AWS, Docker, and CAS Authentication
> (5) Refactoring and Enhancing a GUI-Based Minesweeper Game with MVC Design

Tribhuvan University, Nepal   December 2016 - December 2020

Bachelor of Science (BS) in Computer Science and Information Technology

Percentage: 79.29/100

Relevant Coursework - Object Oriented Programming Language, Data Structures and Algorithms, Theory of Computation, System Analysis and Design, Artificial Intelligence, Software Engineering, Compiler Design and Construction, Database Management System, Advanced Java Programming, etc.

> **Projects -**
> (1) E-Commerce Project - Integration of payment gateway called Khalti to an online booking system
> (2) Web Application development - For online grocery store shopping
> (3) Enterprise Resource Planning (ERP) platform - For Ghorahi Cement factory

Experience

Miami University, Oxford, Ohio - *Graduate Assistant*   August 2023 - August 2025

- Teaching Assistant for multiple undergraduate courses, including Cybersecurity, Software UI/UX, Artificial Intelligence, and Algorithms, under the supervision of 4 different faculty (Fall 2023 - Spring 2025)
- Research Assistant for project 'A Slicing-Based Approach for Detecting and Patching Vulnerable Code Clones' under the supervision of Dr. Hakam Alomari (Fall 2023 - Summer 2025)

Trace 3d Inc., Columbus, Ohio - *Software Development Intern*   May 2024 - August 2024

- Full stack development (using React & .NET) and deployment of an admin console for game development users and asset management
- Utilized AWS services: S3 (hosted the React application deployed via GitHub workflow actions), DynamoDB (managed and retrieved application data), Cognito (managed user authentication and validated login credentials), CloudFront (ensured fast and secure content delivery), and IAM (managed access permissions and policies).
- Implemented infrastructure with Terraform to streamline .NET code deployment
- Utilized Monday.com to implement and track Agile workflows, ensuring efficient sprint planning, task management, and team collaboration.

GrayCode Technology Pvt Ltd, Nepal - *Mid Level Full Stack Developer*   February 2022 - June 2023

- Set up and integrated development tools, including React npm configuration for the front-end and backend setup in .NET, with integration via API endpoints.
- Developed advanced front-end screens involving complex array manipulations and featuring multiple tabs, asynchronous select components, and functionality for converting English dates to the Nepali calendar system.
- Designed and implemented robust backend solutions using C# and .NET Core, leveraging LINQ for efficient data querying, optimizing APIs for CRUD operations with validation and exception handling, and managing database transactions with Dapper ORM and SQL.

- Designed database tables based on user requirements and implemented SQL queries, stored procedures, and functions to support business logic, using MS SQL Server Management Studio for development and optimization.
- Played a key role in the CoreBanking project, where I was deeply involved in all stages of the software development lifecycle, including requirements collection, design, and development.
- Incorporated client feedback to refine and develop subsequent versions, collaborating closely with them on projects like CoreBanking and SparkCar.
- Followed Agile methodology for software development using Jira and ClickUp, while also utilizing GitHub for task management and tracking during some projects.
- Deployed applications to the hosting server by creating and pushing npm bundles for the front-end (React) and generating and uploading build files for the back-end (.NET).

GrayCode Technology Pvt Ltd, Nepal - *Junior Level Full Stack Developer*   January 2021 - January 2022
- Built responsive and user-friendly front-end interfaces using React.js
- Developed clean, scalable code using .NET Core, adhering to the WebAPI pattern, and implemented modular service layers for enhanced maintainability.
- Engineered robust APIs in C#, following best practices like dependency injection and separation of concerns.
- Used MS SQL Server Management Studio to design schemas, create stored procedures, and optimize SQL queries.
- Gained hands-on experience with Entity Framework for managing database access, creating models, setting up relationships and performing data operations with LINQ.
- Collaborated with internal teams to produce software design and architecture
- Utilized Git for version control and GitHub for collaborative coding and code review

GrayCode Technology Pvt Ltd, Nepal - *Intern*   October 2020 - December 2020
- Acquired basic understanding of .NET Core, C#, MS SQL, JavaScript and Version control systems
- Designed and developed custom software solutions using .NET, React, Web Services and Databases
- Learned project management basics, understanding the lifecycle and workflow of software development projects
- Participated in maintaining and enhancing existing software modules, ensuring their functionality and efficiency

Skills

Front-End Development: React.js, JavaScript, TypeScript, Webpack, Bootstrap, CSS

Back-End Development: C#, .NET Core, Entity Framework, Web API, MVC, Dapper ORM, RESTful API

Database: MS SQL, DynamoDB, MongoDB

Cloud & DevOps: AWS (S3, IAM, CloudFront, Cognito), Terraform, GitHub Actions, CI/CD pipelines

Version Control: Git, Bitbucket

Tools: Visual Studio, Visual Studio Code, MS SQL Server, Simulink, MATLAB, Postman

Project Management: ClickUp, Azure DevOps, Jira, Monday.com

Key Projects: Core Banking (financial web app), ERP Ghorahi (cement factory web app), HRMS, E-Commerce, Admin Console Tool

Familiar with: Python, Java, C++, and have foundational understanding of Linux and networking.

Scholastic Achievement

(1) Co-authored the research paper "*A Slicing-Based Approach for Detecting and Patching Vulnerable Code Clones*," published in the Research Track of ICPC 2025 - available at [IEEE Xplore](#) and [arXiv](#).
(2) Graduate Assistant at Miami University (2023-2025)
(3) Member of MUSTANG, Miami University Software Testing and Analysis Group (2023-2025)
(4) College Fellowship for undergraduate studies at IOST, Tribhuvan University (2016-2020)