

Himal Gyawali

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Education

Miami University, Oxford, Ohio

August 2023 - Present

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
- (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 - Present

- Teaching Assistant for undergraduate course, Cybersecurity, under supervision of Dr. James Walden (Fall 2023)
- Teaching Assistant for undergraduate course, Software UI/UX, under supervision of Dr. Hakam Alomari (Spring 2024)
- Teaching Assistant for undergraduate course, Intro to Artificial Intelligence, under supervision of Dr. Khodakhast Bibak (Fall 2024)
- Research Assistant for project 'A Slicing-Based Approach for Detecting and Patching Vulnerable Code Clones' under supervision of Dr. Hakam Alomari (Fall 2023 - Present)

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 assets management
- Utilized AWS services: S3, DynamoDB, CloudFront, Cognito, IAM
- Implemented infrastructure with Terraform

GrayCode Technology Pvt Ltd, Nepal - Mid Level Full Stack Developer

February 2022 - June 2023

- Involved in project setup and association among several development tools
- Developed complex front-end screens involving array manipulation
- Utilized C#, Microsoft's .NET MVC and Core infrastructure to create backend solutions
- Collaborated with coworkers to facilitate the creation of large, complex developments, as required
- Checked the code to detect and remedy errors and omissions.
- Reformulated existing code to ensure adherence to stipulated guidelines
- Ensured the outputs were visually appealing, user-friendly, and engaging
- Used clients' feedback for the creation of subsequent versions of each development
- Executed SQL queries, stored procedures and functions
- Deployed applications to the hosting server

GrayCode Technology Pvt Ltd, Nepal - Junior Level Full Stack Developer

January 2021 - January 2022

- Developed front-end applications using React js
- Wrote clean, scalable code using .NET programming language
- Integrated Front-End systems to the Back-End

- Debugged, revised and updated code
- 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, Databases
- Involved in bug finding and quality assurance
- 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 : JavaScript, React.js, Webpack, TypeScript, Bootstrap, CSS

Back-End Development : C#, .NET core, Web API, MVC, Dapper ORM, RESTful API, Postman API

Database : MS SQL, DynamoDB

Version Control System : GitHub, GitLab, CI/CD deployment

Tools : Visual Studio, Visual Studio Code, MS SQL Server, Simulink, Matlab, Terraform

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

Projects Involved : 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) Graduate Assistant at Miami University (2023-2025)
- (2) Member of MUSTANG, Miami University Software Testing and Analysis Group (2023-present)
- (3) College Fellowship for undergraduate studies at IOST, Tribhuvan University (2016-2020)

References

- (1) **Dr. Hakam Alomari** (alomarhw@MiamiOH.edu), Associate Professor, Department of Computer Science and Software Engineering, Miami University
- (2) **Dr. James Walden** (waldenjw@MiamiOH.edu), Professor and Director of the Center for Cybersecurity, Miami University