

Abhishek Humagain

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Summary — Aspiring software engineer, with the goal of contributing to scalable, high impact software solutions. Experienced in leading teams, mentoring developers, and driving adoption of modern engineering practices, with a strong commitment to aligning technology with organizational goals.

Education

Mississippi State University

May 2027

Master of Science in Computer Science (Research Concentration)

London Metropolitan University

September 2015 - September 2018

Bachelor of Science (Honours) in Computing

Upper Second-Class Honours (2:1)

Experience

Mississippi State University, Starkville, MS

August 2025 – Present

Graduate Assistant

- Conduct quantitative data analysis to support institutional planning and assessment initiatives
- Contribute to website design, content updates, and digital resource management to improve accessibility and usability
- Collaborate with faculty and staff on special projects, ensuring accuracy, efficiency, and timely completion of tasks

Innovate Tech, Kathmandu, Nepal

January 2022 – June 2025

Lead Software Engineer — Team Lead

- Modernized legacy systems by migrating core backend from .NET Framework 2.0 to .NET 6
- Improved developer workflows with Docker, CI/CD, and gRPC integration, streamlining deployments and boosting team productivity
- Led large-scale code base refactoring, improving reliability, security, and maintainability across services
- Mentored engineers through code reviews, system design discussions, and architectural walkthroughs, to foster continuous learning
- Collaborated with product managers and engineering leadership to execute the technical vision

Outcode Software, Kathmandu, Nepal

March 2020 – January 2022

Senior Software Engineer — Team Lead

- Led a team of 10 developers, ensuring adherence to coding standards student learning platform using ASP.NET Core
- Managed Azure services as part of the DevOps process
- Collaborated with management on team performance, recruitment, and strategic planning to align with company objectives
- Implemented Agile methodologies to improve project delivery timelines across multiple projects

Blue Panda Communications — AltiGen Communications, Inc, Lalitpur, Nepal

July 2019 – February 2020

Software Engineer

- Developed an omnichannel contact center solution as a .net developer at Blue Panda Communications
- Configured storage accounts, resource groups, and app services on Microsoft Azure for seamless operations
- Implemented Azure AD and Azure AD B2C for authentication, enabling multi-tenant and single sign-on capabilities
- Automated processes using Power shell, Azure CLI, docker, ACR, and ACI, enhancing efficiency and productivity

Insight Workshop, Kathmandu, Nepal

June 2018 – June 2019

Software Engineer

- Designed and implemented a scalable wiki application for a home security company using .NET Core and Angular
- Led development of a cross-platform mobile application with Xamarin, deploying on iOS and Android with backend services hosted on AWS
- Configured Azure services through storage accounts, resource groups, app services, Azure AD, and Azure B2C
- Deployed full-stack web applications using Angular, SCSS, and jQuery
- Replicated UI designs of leading tech companies and incorporating modern design practices
- Contributed to team growth by adopting the latest .NET technologies, solving algorithmic challenges on LeetCode/HackerRank, and improving communication through daily stand-ups

Bidhee Pvt. Ltd., Kathmandu, Nepal

December 2017 – March 2018

C#.Net Intern

- Learned Asp Net programming and developed skills in .Net MVC, Angular 5, and REST API
- Contributed to the development of the school management system

Projects

My Second Teacher & Home School Asia	2025
<ul style="list-style-type: none">• Developed core backend systems using ASP.NET 8, CQRS, Clean Architecture, and SOLID principles, ensuring scalability and maintainability• Played a pivotal role in growing the platforms to 51+ countries, ensuring stability, performance, and security• Focused on microservices, CI/CD pipelines, and observability to support global adoption	
BenchMarkCSharp – CPUIntensivePOC	2024
<ul style="list-style-type: none">• Designed and implemented an in-memory data processor in .NET using MemoryCache and Dictionary to efficiently handle large objects• Conducted performance benchmarking with BenchmarkDotNet• Developed stress tests to validate reliability under high load• Demonstrated expertise in performance engineering and scalable system design	
Protocol Now	2021
<ul style="list-style-type: none">• Collaborated on building a workflow automation platform, integrating modern .NET backend architecture with scalable APIs• Enhanced platform reliability and performance to support enterprise users• Conducted load testing and optimized system performance, improving concurrent user handling capacity from 500 to 10,000+ users• Improved efficiency through LINQ query optimization and advanced thread management (async/await for non-blocking calls, background processing for CPU-heavy tasks, throttled execution to prevent starvation, and thread-safe resource access)	
Swift River Online Simulation	2020
<ul style="list-style-type: none">• Contributed to the development of a scalable online education platform, improving teacher–student digital interactions• Implemented backend services with a focus on security, data integrity, and maintainability• Successfully optimized and enhanced user experience and increasing user engagement by approximately 70% through effective load testing and performance improvements	
Email Channel Integration with Azure Bot Service (R&D)	2019
<ul style="list-style-type: none">• Built a proof-of-concept extending Azure Bot Service to support email as a communication channel• Integrated Office 365 & Microsoft Graph APIs with Bot Framework SDK and Azure Functions• Enabled two-way email-bot communication: receiving user emails, processing via bot, and sending context-aware responses• Future roadmap includes upgrading to .NET 8 and incorporating Generative AI for intelligent responses	

Skills

Languages C#, Python, .Net, R	SDLC SCRUM, Kanban
Cloud Azure, AWS	API REST, GRPC
OS Ubuntu, Windows, macOS	Soft Skills Leadership, Problem-Solving, Collaboration,
DevOps / CI-CD Docker, CircleCI, Jenkins	Adaptability, Critical Thinking,
Version Control GitHub, GitLab, Bitbucket	Communication
Database Microsoft SQL Server, MySQL, PostgreSQL	