

# 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

<b>Mississippi State University</b> <i>Master of Science in Computer Science (Research Concentration)</i>	<b>May 2027</b>
<b>London Metropolitan University</b> <i>Bachelor of Science (Honours) in Computing</i> <i>Upper Second-Class Honours (2:1)</i>	<b>September 2015 - September 2018</b>

## Experience

<b>Mississippi State University, Starkville, MS</b> <i>Graduate Assistant</i>	<b>August 2025 – Present</b>
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- 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

<b>Innovate Tech, Kathmandu, Nepal</b> <i>Lead Software Engineer — Team Lead</i>	<b>January 2022 – June 2025</b>
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- 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

<b>Outcode Software, Kathmandu, Nepal</b> <i>Senior Software Engineer — Team Lead</i>	<b>March 2020 – January 2022</b>
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- 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

<b>Blue Panda Communications — AltiGen Communications, Inc, Lalitpur, Nepal</b> <i>Software Engineer</i>	<b>July 2019 – February 2020</b>
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- 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

<b>Insight Workshop, Kathmandu, Nepal</b> <i>Software Engineer</i>	<b>June 2018 – June 2019</b>
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- 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

<b>Bidhee Pvt. Ltd., Kathmandu, Nepal</b> <i>C#.Net Intern</i>	<b>December 2017 – March 2018</b>
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- 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

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### My Second Teacher & Home School Asia

2025

- 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

- 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

- 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

- 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

- 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

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**Languages** C#, Python, .Net, R

**Cloud** Azure, AWS

**OS** Ubuntu, Windows, macOS

**DevOps / CI-CD** Docker, CircleCI, Jenkins

**Version Control** GitHub, GitLab, Bitbucket

**Database** Microsoft SQL Server, MySQL, PostgreSQL

**SDLC** SCRUM, Kanban

**API** REST, GRPC

**Soft Skills** Leadership, Problem-Solving, Collaboration, Adaptability, Critical Thinking, Communication