

# Hamza Yar Khan

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Melbourne, VIC, Australia

## PROFESSIONAL SUMMARY

Experienced .NET Back End Developer with 5+ years of hands-on expertise in building scalable SaaS platforms using **C#, .NET Core, and Entity Framework**. Proven success in migrating complex legacy systems to modern architectures, optimizing SQL-heavy workflows, and deploying cloud-native solutions on the **Azure stack** (App Services, Functions, CI/CD). Strong advocate for clean code and maintainability, with a deep focus on **unit testing** (xUnit, integration tests). Collaborative team player with cross-functional experience in React-based front ends and agile delivery environments.

## TECHNICAL SKILLS

- **Languages:** C#, SQL (T-SQL), JavaScript
- **Frameworks:** .NET Core, ASP.NET MVC, Entity Framework
- **Cloud:** Azure (App Services, Functions, SQL Database, Service Bus, CI/CD with Azure DevOps)
- **Databases:** SQL Server, MySQL
- **Testing:** Unit Testing (xUnit)
- **Front-End Collaboration:** React (API integration, cross-team coordination)
- **DevOps Tools:** Azure DevOps, GitHub

## WORK EXPERIENCE

### DIGITAL IMMERSION | FULL STACK DEVELOPER

Melbourne, Australia | Jul 2024 – Jan 2025

- Redeveloped a high-traffic eCommerce platform using **.NET Core Web APIs** and **React**, improving page load speed by 40% and boosting conversion rates
- Engineered custom Shopify apps with **Liquid, JavaScript, and CSS**, enabling dynamic product personalization
- Led migration of Shopify POS, synchronizing **inventory, customer data, and transactions** across physical and digital channels
- Integrated **Azure Functions** for background processing tasks such as order reconciliation and stock updates, reducing manual overhead by 60%

### TASMAN LOGISTICS | SENIOR SOFTWARE ENGINEER

Melbourne, Australia | Feb 2024 – Jun 2024

- Architected and deployed modular microservices using **.NET Core, Entity Framework, and SQL Server**, replacing legacy monoliths and improving maintainability
- Refactored complex business logic into scalable services, optimizing **T-SQL** queries and reducing report generation time by 70%
- Designed asynchronous workflows using **Azure Service Bus** and **Azure Functions**, improving fault tolerance and throughput
- Developed secure REST APIs with **JWT**-based authentication and granular role-based access control
- Automated infrastructure provisioning and CI/CD pipelines using **Azure DevOps**, enabling zero-downtime deployments across environments
- Built comprehensive **unit and integration test suites** using **xUnit** improving release confidence and reducing regression bugs

### FOLIO3 SOFTWARE | SENIOR SOFTWARE ENGINEER

Karachi, Pakistan | Feb 2022 – Nov 2023

- Led backend development for ERP connectors using **.NET Core** and **Entity Framework**, integrating platforms like **Shopify, Amazon, WooCommerce** with **Dynamics FO**
- Migrated legacy services to Azure-based architecture using **App Services, Functions, and SQL Database**, improving scalability and fault tolerance
- Designed and implemented **CI/CD pipelines** in **Azure DevOps**, enabling automated testing, staging, and blue-green deployments
- Collaborated with React front-end teams to align API contracts and optimize data-fetching strategies
- Conducted peer code reviews and enforced clean architecture principles, improving codebase consistency and maintainability

- Developed backend modules for inventory and procurement systems using **.NET Core**, **Entity Framework**, and **SQL Server**, handling millions of records with optimized indexing
- Implemented **unit and integration tests** using **xUnit**, reducing production bugs by 40%
- Built reusable UI components and state management logic in **React** with **Redux Toolkit**, improving frontend maintainability
- Participated in secure development lifecycle practices, including threat modeling, static code analysis, and secure API design
- Contributed to internal tooling for deployment automation and performance benchmarking, reducing manual deployment time by 80%

## EDUCATION

### Higher Education Leadership Institute

MASTERS OF RESEARCH (PART TIME WITH FULL WORKING RIGHTS)

Melbourne, Australia | July 2025 - Present

### NED University of Engineering and Technology

MASTERS OF SCIENCE IN DATA SCIENCE

Karachi, Pakistan | Nov 2020-Mar 2023

### NED University of Engineering and Technology

BACHELORS OF COMPUTER SYSTEMS ENGINEERING

Karachi, Pakistan | Dec 2015- Dec 2019

## PROJECTS

### INVENTORY MANAGEMENT SYSTEM

*.NET Core, SQL Server, Azure App Services, xUnit*

Designed and implemented a scalable **inventory management system** for multi-warehouse operations. Built modular **.NET Core** services to handle stock tracking, reorder logic, and supplier integration. Optimized **SQL Server** queries for real-time inventory lookups and batch updates. Deployed via **Azure App Services** with CI/CD pipelines. Ensured reliability through **xUnit** test coverage across critical workflows.

### ERP TO ECOMMERCE INTEGRATION

*.NET Core, Azure Functions, REST APIs, SQL Server, Azure DevOps*

Integrated a third-party ERP system with a custom-built eCommerce platform to automate product sync, order flow, and inventory updates. Developed **.NET Core microservices** and scheduled **Azure Functions** for catalog and order reconciliation. Built secure **RESTful APIs** for real-time communication between ERP and eCommerce backend. Optimized **SQL Server** for high-volume SKU transactions. Automated deployments via **Azure DevOps**, improving fulfillment speed and reducing manual errors.