MUHAMMAD SHAHRYAR

Software Engineer | Full Stack | Cloud & DevOps | AI Agents & LLM Integration
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github.com/Shahryar123 | Portfolio

PROFESSIONAL SUMMARY

Software Engineer with 5 years of experience building and deploying production systems across fintech, healthcare, telecommunications and product domains. Skilled in .NET/C#, React, Angular, Node.js and Python, with strong expertise in cloud infrastructure (Azure, AWS), CI/CD and Infrastructure as Code (Pulumi, Terraform). Experienced in building AI agents and agentic workflows using LLM APIs (Anthropic Claude, OpenAI), including tool calling and LLM evaluation, and in data platforms such as Databricks and Snowflake.

EDUCATION

Bachelor of Science in Computer Science **Aug 2017 – Jul 2021**
National University of Computer & Emerging Sciences (FAST-NUCES)

PROFESSIONAL EXPERIENCE

Software Engineer – Alpha Mu Digital Ventures **Sep 2025 – Present**

- Architected and built TrackIQ, an RFID-based inventory tracking platform covering manufacturing to sale, as the sole engineer using React, Node.js/Express, PostgreSQL and Docker.
- Integrated RFID hardware (handheld and desktop readers) with the platform for real-time inventory tracking.
- Developed a healthcare Progressive Web App with Next.js and React, including mrx integration and service workers for offline support and performance.

Full Stack Developer – Software Digital **Jul 2024 – Aug 2025**

- Developed middleware solutions with .NET 9 and C# for SAP Qualtrics and provided direct client support.
- Implemented Infrastructure as Code with Pulumi (.NET) and automated multi-pipeline deployments using Azure DevOps.

Backend Developer – BrainCrop Solutions **May 2023 – Jul 2024**

- Built web applications and microservices using ASP.NET Core (.NET 8) and SQL.
- Applied Domain-Driven Design and Clean Architecture, reducing codebase complexity by 25%.
- Containerized services with Docker to improve scalability and deployment consistency.

Junior .NET Developer – Innovative Pvt. Ltd. **Aug 2021 – Jun 2022**

- Contributed to the design and implementation of backend features using C#, .NET and SQL databases.
- Analyzed project specifications and designed solutions, improving delivery efficiency by 20%.

PROJECTS

Layered LLM Evaluation Harness **Python, Pytest, GitHub Actions, Anthropic API**

- Built a four-layer LLM evaluation framework combining automated safety checks, rubric-based LLM-as-a-judge scoring, human review and statistical regression detection.
- Added sensitive-data leakage prevention and judge calibration; integrated 95 automated tests and scheduled live-model evaluations into CI.

DevOps Automation Platform **Pulumi, Azure DevOps, GitHub API, React**

- Built a self-service platform that provisions cloud infrastructure across environments via Pulumi and Azure DevOps pipelines, driven by a React (Vite) frontend with Pulumi ESC and secure CI/CD integration.

AI-Powered AR Virtual Try-On **React, MediaPipe, Computer Vision**

- Developed a browser-based real-time virtual try-on app using MediaPipe pose estimation and segmentation for body tracking and garment overlay.

SalesFusion CRM **Python, Flask, SQLAlchemy, SQLite**

- Built a CRM for managing leads, contacts and sales pipelines with authentication, search/filtering and an analytics dashboard.

CERTIFICATIONS

Data Ingestion with Lakeflow Connect (Knowledge Badge) – Databricks **Apr 2026**
Databricks Fundamentals (Academy Accreditation) – Databricks **Apr 2026**
Build ASP.NET Core Web API (.NET 8) – Udemy **Jul 2025**
JavaScript Algorithms and Data Structures – freeCodeCamp **Nov 2023**
Introduction to Salesforce CRM – 10Pearls University **Feb 2023**
AWS Fundamentals: Going Cloud-Native – Coursera **Apr 2020**

TECHNICAL SKILLS

Languages & Frameworks: C#, .NET 8/9, ASP.NET Core, Web API, MVC, Python, Flask, JavaScript, TypeScript, React, Next.js, Angular, Node.js, Express

AI & LLM: Agentic AI, AI Agents, LLM Integration, Anthropic Claude API, OpenAI API, Tool/Function Calling, Prompt Engineering, LLM Evaluation, LLM-as-a-Judge, AI Guardrails, Computer Vision (MediaPipe)

Cloud & DevOps: Microsoft Azure, AWS, Azure DevOps, GitHub Actions, CI/CD, Docker, Pulumi, Terraform, Infrastructure as Code, Git, Bitbucket

Data & Databases: PostgreSQL, SQL Server, MySQL, Oracle, MongoDB, Databricks, Snowflake

Architecture: Microservices, Clean Architecture, Vertical Slice, Domain-Driven Design, Repository Pattern, PWA

Testing: Unit Testing, Pytest, Playwright, Tosca Tricentis