

SHAHISTA TAMKEEN

AI Application Developer - Full-Stack Developer - Workflow Automation

Chicago, IL - +1(947) 275-7946 - stamk0328@365.elmhurst.edu - [LinkedIn](#) - [GitHub](#) - [Portfolio](#)

PROFESSIONAL SUMMARY

AI Application Developer with experience designing and deploying **AI-driven business applications, AI agents, and automation workflows** integrated across enterprise systems. Skilled in building scalable solutions using **Python, C#, and .NET**, developing **RESTful APIs**, and enabling seamless system integration. Experienced with **Power Platform** for workflow automation and business process optimization. Strong background in **Microsoft Azure, SQL, and enterprise application integration**, with a focus on delivering secure, scalable solutions that improve business operations and efficiency.

EDUCATION

Elmhurst University, Elmhurst, IL

Aug 2024 – May 2026

Master of Science in Computer Science and Information Systems

GPA: 3.97

Relevant Coursework: Software Engineering, Database Systems, Enterprise Data Modeling, Big Data Analytics, Advanced Machine Learning, Networking

TECHNICAL SKILLS

Languages: Python, C#, .NET, React, SQL, Java, C++, JavaScript

Frameworks & APIs: FastAPI, Flask, ASP.NET, REST APIs, RESTful API Development

AI & Automation: Machine Learning(Supervised and Unsupervised Learning), Deep Learning, CNNs, AI Applications, AI Agents, Workflow Automation, OpenAI API

Power Platform: Power Apps, Power Automate, Dataverse

Databases: PostgreSQL, MongoDB, SQL Optimization, Data Modeling

Cloud: Microsoft Azure, AWS, Google Cloud Platform(GCP)

Tools: Git, GitHub, CI/CD, VS Code, Jupyter Notebook, Tableau, PowerBI

Concepts: Enterprise Application Integration, API Integration, SDLC, Secure Application Development

PROFESSIONAL EXPERIENCE

Graduate Assistant

Feb 2025 – Present

Elmhurst University, Elmhurst, IL

- Streamlined academic workflows by developing **Power Apps** solutions integrated with **Power Automate**, reducing manual coordination effort by 50% and improving operational efficiency.
- Built and optimized backend services using **Python, C#, and .NET**, improving application performance and enabling scalable system functionality.
- Designed **data preprocessing and transformation pipelines**, enabling structured data integration across applications and improving data usability.
- Improved system reliability by performing **debugging, testing, and performance optimization**, reducing recurring errors.
- Developed **modular and reusable components** aligned with **SDLC practices**, improving maintainability and scalability.
- Ensured secure application design by implementing **API security, authentication practices, and data handling standards**.

Data Analyst

Dec 2023 – Jul 2024

Optum India

- Built **ETL pipelines** using **Python and SQL** for 5M+ records, enabling scalable data workflows and enterprise data integration.
- Optimized **SQL queries and database structures**, improving performance by 40% and enhancing reporting efficiency.
- Developed dashboards using **Power BI and Tableau**, enabling data-driven business decisions.
- Automated **data validation and transformation workflows**, reducing manual effort and improving data accuracy.
- Applied **machine learning models** to generate predictive insights, improving business decision-making.

PROJECTS

AI-Powered Cloud Monitoring & Security Platform (Capstone - In Progress)

[GitHub](#)

React, FastAPI, Azure

- Built an **AI-driven monitoring system with AI agent** for anomaly detection and automated alerts, improving system reliability.
- Built **RESTful APIs** using FastAPI to integrate data across services, enabling seamless enterprise system communication.
- Designed scalable architecture using **Microsoft Azure**, improving system performance and availability.
- Enforced **secure API communication and data handling** to maintain compliance with application security standards.

Power Apps Construction Workflow Automation System

Power Apps, Power Automate, Dataverse

- Built a simple Power Apps application to manage construction workflows such as **RFIs and task requests**, enabling structured tracking of project activities.
- Created approval workflows using **Power Automate** to route requests between users, improving coordination and reducing manual follow-ups.
- Used **Dataverse** for data storage and implemented basic role-based access to support secure workflow management.

CareerPulse - AI-Powered Job Application Platform

[GitHub](#)

React, OpenAI API, PostgreSQL

- Built an **AI-powered application and intelligent workflow system** to optimize job tracking and resume matching.
- Integrated **OpenAI API** to deliver personalized insights and recommendations in real time.
- Designed backend architecture and APIs to support scalable workflows and application performance.

MOH_BY_AMIKSHA - Full-Stack E-Commerce Website

[GitHub](#)

React, Python, PostgreSQL

- Developed a full-stack business application with **REST APIs** and database integration to support dynamic workflows.
- Designed backend systems using **PostgreSQL**, improving data handling and system efficiency.
- Improved user experience through optimized UI/UX and responsive design.

Portfolio Website and Web Projects

[Live](#) — [GitHub](#)

React, JavaScript, HTML/CSS

- Designed and developed a responsive portfolio website using **React** to showcase projects and technical skills effectively.
- Implemented **reusable components** and structured layouts, improving maintainability and consistency.
- Optimized performance and accessibility across devices, enhancing overall user experience.

Patient Readmission Risk Prediction System

[Live](#) — [GitHub](#)

Python, Streamlit, Machine Learning

- Developed an ML-based system using **Python** to predict patient readmission risks, improving prediction accuracy.
- Built an interactive dashboard using **Streamlit** for real-time predictions, enabling faster decision-making.
- Integrated **machine learning models** with visualization tools to improve usability and accessibility.

Banking Customer Risk Prediction & Analytics

[GitHub](#)

Python, Power BI, Data Analysis

- Identified loan risk patterns using **data analysis techniques** in **Python**, improving risk assessment accuracy.
- Performed **data cleaning and exploratory analysis**, enhancing dataset quality and insights.
- Developed dashboards using **Power BI**, supporting business decision-making.

Brain Age Prediction using Deep Learning

[GitHub](#)

Python, CNN, Deep Learning

- Built a **CNN-based deep learning model** to estimate brain age from neuroimaging data, improving prediction reliability.
- Applied **preprocessing and model optimization techniques**, enhancing accuracy.
- Evaluated performance using validation metrics and iterative tuning.

Multiplatform Reputation Analysis System

Python, NLP, Sentiment Analysis

- Built an NLP-based sentiment analysis system in **Python** to analyze cross-platform data and generate insights.
- Implemented **sentiment classification models** to identify trends in textual data.
- Aggregated and visualized sentiment data to support data-driven decision-making.

Publications

Tamkeen, S. (2024). *AI for Brain Age Prediction*. International Journal of Engineering Research.

DOI: [10.55248/engpi.5.0524.1289](https://doi.org/10.55248/engpi.5.0524.1289)

Recognized with an official Certificate of Publication following peer-review evaluation.

Certifications

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- Google Cloud Career Readiness - Associate Cloud Engineer Track — Google
 - Microsoft Azure Fundamentals (DP-900) — Microsoft
 - AI & Data Science Certification — IBM
 - Java Programming (Course Completion) — Oracle
 - Java Fundamentals (Course Completion) — Oracle
 - CLA: Programming Essentials in C — C Certification