DANIYAL AHMAD

AI & SOFTWARE ENGINEER

Lahore, Pakistan

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PROFILE

A certified problem-solver skilled in navigating challenges across diverse systems. Experienced in AI and machine learning. Adept at software design principles, patterns, and architecture. A passionate learner with a flair for mentoring.

EXPERIENCE

Aug 2024 – Jan 2025

AI CONSULTANT

@ Verituslabs, Lahore

- Consulted teams in developing AI-infused tools, and their integration into existing projects.
- Built An LLM-powered causal chain extraction and analysis system to aid legal investigations.
- Developed a system to aid a research project on spatial problem-solving capabilities of multimodal AI.

Oct 2023 – Jul 2024

AI INTERN

@ Verituslabs, Lahore

- Contributed to the development of a social media mining and analysis project.
- Developed a legal documentation analysis system for constructing interactive knowledge graphs.
- Built generic data extraction, preprocessing, analysis, and visualization structures.

Aug 2021 – Sep 2023

SOFTWARE ENGINEERING INTERN

@ Cross Solutions, Lahore

- Developed 70% of a community-driven tourist attractions mobile app.
- Integrated Google Sheets API in the company's official website.
- Developed an LLM-powered content creation system for the company's blog.

SKILLS

FRAMEWORKS & LIBRARIES

- .NET • Entity Framework Core
- ASP.NET Web APIs • SignalR
- xUnit • nUnit • WinForms
- LangChain • Pandas • Scikit-Learn
- Flutter • Tkinter • Bootstrap

PROGRAMMING LANGUAGES

- Java • Python • C# • C++
- C • Dart • SQL • Bash
- JavaScript • HTML • CSS

TOOLS & EXPERTISE

- Linux • Docker • Git • Mermaid
- Microsoft Azure • Azure DevOps
- Azure SQL Database • SQL Server
- MySQL • SQLite • PostgreSQL

SOFT SKILLS

- Problem-Solving • Mentoring
- Leadership • Teamwork
- Communication • Organizing

HONORS

Feb 2023 – Oct 2023

GOOGLE FOOBAR PARTICIPANT

- Level 4 • Invited by Google

Spring 2021

DEAN'S MERIT AWARD

University of Management and Technology

CERTIFICATIONS

- Problem-Solving • Java • Python
- C# • SQL

EDUCATION

Oct 2020 – Dec 2024

BACHELOR'S DEGREE IN SOFTWARE ENGINEERING

@ University of Management and Technology, Lahore

- CGPA – 3.62 / 4

Sep 2018 – Sep 2020

INTERMEDIATE IN COMPUTER SCIENCE

@ Government College Gulberg, Lahore

PROJECTS

EDIN | Final Year Project

- A collaboration platform aiming to bridge the gap between academia and industry.
- Designed the system architecture using designated tools.
- Developed a feed recommendation engine for content personalization with neural networks using Scikit-Learn.
- Contributed to the development of the server-side application using .Net with EF Core and SignalR.
- Configured CI/CD with Azure DevOps and Azure Portal.

CAUSAL CHAIN ANALYSIS SYSTEM | Verituslabs

- An LLM-powered causal chain extraction and analysis system to aid legal investigations.
- Built the system with Python using LangChain.

WORDY

- A performance-oriented dictionary app powered by a 5D hash table of AVL trees.
- Built with Python using the Tkinter library for UI.

CHOPPER CHOPPER

- A 2D platformer retro-style chopper game with a real-time terrain generation system.
- Built with .NET Framework 4.7 and WinForms.

LANGUAGES

- English – Fluent
- Urdu – Native
- Balti – Native
- Punjabi – Conversational

HOBBIES

- Table Tennis
- Video Games
- Literature
- Coding Challenges
- Documentaries

PORTFOLIO

- 🌐 daniyalahmadse.github.io
- linkedin.com/in/daniyalahmadse
- github.com/daniyalahmadse
- stackoverflow.name/daniyalahmadse
- hackerrank.com/daniyalahmadse