



# DANIYAL AHMAD

AI & SOFTWARE ENGINEER

Lahore, Pakistan 

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## PROFILE

A certified problem solver skilled in navigating challenges across diverse software systems. Adept at Software Design Principles, Patterns, and Architecture. Experienced in building AI tools. A passionate learner with a flair for mentoring.

## EXPERIENCE

Aug 2024 – Present

### AI CONSULTANT

@ Verituslabs, Lahore

- Consulting teams in developing AI and LLM-infused tools, and their integration into existing projects.
- 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 using LangChain and Neo4j.
- 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 with Flutter.
- Integrated Google Sheets API in the company's official website using JavaScript.
- Developed an LLM-based content creation system for the company's blog.

## SKILLS

### FRAMEWORKS & LIBRARIES

- .NET • Flutter • Langchain
- EF Core • SignalR • Pandas
- Tkinter • Bootstrap

### PROGRAMMING LANGUAGES

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

### TOOLS & EXPERTISE

- Git • Docker • Linux
- Azure DevOps • Azure Portal
- ML • NLP • Mermaid

### SOFT SKILLS

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

## HONORS

Feb 2023 – Oct 2023

### GOOGLE FOOBAR PARTICIPANT

- Level 4 • Invited by Google

Spring 2021

### DEAN'S MERIT AWARD

University of Management & Technology

## CERTIFICATIONS

- [Problem Solving](#) • [Java](#) • [Python](#)
- [C#](#) • [SQL](#)

# EDUCATION

Oct 2020 – Nov 2024

## BS SOFTWARE ENGINEERING

@ University of Management & Technology, Lahore

- CGPA – 3.63 / 4

Sep 2018 – Sep 2020

## INTERMEDIATE IN COMPUTER SCIENCE

@ Government College Gulberg, Lahore

# PROJECTS

### EDIN | Final Year Project

- A collaboration platform for academia and industry built using .Net, React JS, and Python.
- Designed the system architecture using designated tools.
- Developed a feed recommendation engine for content personalization with neural networks using Python.
- 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

- A research-oriented project on LLM-powered causal chain extraction and analysis.
- Developing the system using LangChain.

### WORDY

- A performance-oriented dictionary app powered by a 5D hashtable 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
- Reading Literature
- Problem Solving
- Watching Documentaries

# PORTFOLIO

 [daniyallahmadse.github.io](https://daniyallahmadse.github.io)

 [linkedin.com/in/daniyallahmadse](https://linkedin.com/in/daniyallahmadse)

 [github.com/daniyallahmadse](https://github.com/daniyallahmadse)

 [stackoverflow.name/daniyallahmadse](https://stackoverflow.name/daniyallahmadse)

 [hackerrank.com/daniyallahmadse](https://hackerrank.com/daniyallahmadse)