

Furqan Saeed

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Professional Experience

Founder | MentatX | Remote (Pakistan) - Oct/2025 - Present

- Developed frontend and backend from scratch. Built LLM API Gateway for LLM Agnostic support
- Build robust error handling and fault tolerance due to indeterministic failure points
- Integration Composio to provide 1000+ third party app MCP secure access to LLMs.

Senior Software Engineer | Astera Software | Remote (Pakistan) - Nov/2024 - Oct/2025

- Leading development of an AI Agent Builder platform for creating low-code intelligent agents with configurable actions, workflows, and prompts.
- Managing a team of 8 (4 software engineers, 3 AI/ML researchers, 1 QA engineer), handling architecture, planning, and delivery timelines.
- Designed a modular, fault-tolerant orchestration engine to run thousands of agent workflows with low latency and high reliability.
- Delivered 15+ major product features by closely working with product and research teams.
- Led efforts to refactor legacy code to a layered architecture, improving code maintainability and reducing bugs.

Software Engineer 2 | Astera Software | Remote (Pakistan) - Sept/2023 - Nov/2024

- Directed a team of 15 engineers during company-wide code migration from WinForms to WPF (300+ screens) allowing our application cross platform support via Avalonia XPF This opened us to a new untapped market of Linux and Mac users.
- Reduced bug count and improved performance by over 30% using JetBrains profiler.
- Participated in code reviews and agile sprints, enhancing team productivity and code quality.
- Implemented vector embeddings and RAG pipelines, enhancing document search speed and enabling smarter AI-driven solutions.
- Conducted research on LangChain and HayStack for better integration of LLM pipelines into our products.
- Improved product throughput by 20% using multithreading, asynchronous processing, and performance tuning.

Software Engineer | Astera Software | Remote (Pakistan) - June/2022 - Sept/2023

- Abstracted UI framework code from business logic to support future cross-platform migration (e.g., to XPF).
- Built a LLM-powered layout generator to extract data from unstructured sources, which eliminated manual formatting, reducing layout creation effort by 50+%.
- Integrated OpenAI Whisper to convert audio to text, cutting transcription time by 75%.
- Extended internal Astera Query Language compiler to support method chaining and allow easier customizations.

Awards

- Star Performer Award (2025) - for leading the development of AI Agent Builder which is a new product currently in testing phase.
- Outstanding Contribution Award (2024) - for leading the successful product-wide migration from WinForms to WPF
- Emerging Leader Award (2023) - for demonstrating strong technical leadership and innovation in platform initiatives

Education

Bachelor of Science in Computer Science

[Institute of Business Administration], Karachi - Graduation June/2022