

Wajahat Ahmad

Software Engineer | C# ASP.NET Core, Angular & TypeScript

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SUMMARY

Software engineer with a systems background. At Alachisoft I worked inside a distributed in-memory platform competing with Redis, building client-server communication over Protocol Buffers and RPC and fixing state transfer across failover. Since then I've owned full-lifecycle delivery solo, in research-led environments.

PROFESSIONAL EXPERIENCE

Software Developer | [Procyo](#) Belgium

March 2026 - Present

- Architecting and building a custom CRM from scratch for a property management company using Python and Odoo, delivering full lifecycle ownership from design through deployment.
- Designed custom Odoo modules and server-side logic to support management and operational workflows.
- Building automated workflows for management, reducing manual work and improving traceability.
- **Tools & Technologies:** Python, Odoo, PostgreSQL, Docker, Azure, Git, Cursor, Claude Code.

AI Engineer | [ERTP \(Industry Collaboration\)](#) Belgium

August 2025 - June 2026

- Designed and developed an AI-driven job application automation platform in collaboration with ERTP.
- Conducted R&D for CV parsing, personality assessment, and automated evaluation of open-ended responses.
- Created prototypes for each module, followed by production-grade implementation in a full-stack architecture, with structured unit and integration tests ensuring correctness and maintainability.
- **Tools & Technologies:** Java, Spring Boot, Angular, PostgreSQL, JUnit, Maven, Applied AI R&D.

Software Engineer | [Alachisoft](#) Pakistan

July 2023 - September 2024

- Designed and implemented a Pub/Sub messaging system architecture similar to Apache Kafka integrated with NCache's in-memory distributed cluster, enabling high-throughput, low-latency message delivery.
- Built and tested client-server features including message publishing, polling, and subscription management, achieving reliable behavior under concurrent load.
- Developed state transfer mechanisms to maintain data consistency across distributed cluster nodes during topology changes and failover events.
- Worked hands-on with in-memory data store internals on a platform competing directly with Redis, and with Redis itself giving me a deep, comparative understanding of caching, key-value stores, and messaging systems.
- Diagnosed and resolved critical network and state transfer defects, improving overall cluster stability and reducing recovery time during node failures.
- Collaborated on protocol-level design decisions, implementing client-server communication with Protocol Buffers and RPC calls, and contributing to architecture reviews and code walkthroughs with senior engineers.
- **Tools & Technologies:** C#, .NET, Java, Python, Apache Kafka, Redis, Protobuf, RPC, Docker, Unit Testing.

SELECTED PROJECTS

EcoGuide - Advanced Search System

- Designed and implemented a two-tier search engine combining indexed keyword search with a semantic vector-database layer, significantly improving query relevance.
- **Technologies:** .NET, MongoDB, git, API Development, vector database.

ZAROORAT - Mobile Commerce Platform

- Built a React Native mobile app with in-app messaging, integrating ML models for category prediction, price suggestions, and profanity filtering.
- **Technologies:** React Native, Python, FastAPI, Firebase, Heroku.

EDUCATION

M.Sc. in Computer Science | *Université catholique de Louvain* | **UCLouvain**

September 2024 - July 2026

Options: Software Engineering & Programming Systems · Networks & Systems

Thesis: AI/LLM-driven recruitment automation platform, industry collaboration with E RTP.

B.Sc. in Computer Science | **COMSATS University Islamabad**

August 2019 - July 2023

TECHNICAL SKILLS

Languages: C#, Java, Python, TypeScript, JavaScript, Bash scripting.

Databases: Redis, MongoDB, PostgreSQL, SQL, relational data modelling (ERD, conceptual/logical).

DevOps & Tools: Docker, Git, GitHub Actions, Jenkins (CI/CD), Azure, Cursor, Claude Code, Jira, Confluence, Agile/Scrum.

Distributed Systems & Networking: TCP/IP, Protocol Buffers, RPC, Pub/Sub Messaging, Distributed Clustering, State Transfer, Apache Kafka, NCache, In-Memory Clustering, Message Queuing

Frameworks & Platforms: .NET Core, ASP.NET, Spring Boot, FastAPI, Odoo, Angular, Blazor, REST APIs, Protocol Buffers, RPC.

LANGUAGES

English (Professional) | **French** (Elementary, improving) | **Dutch** (Elementary, improving)