

# Emir Kahraman

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## Profile

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Computer Engineering student specializing in AI systems, data analysis, and full-stack development. Hands-on experience designing LLM/RAG applications and AI-agent tooling, writing analytical SQL (PostgreSQL, T-SQL) over relational schemas, and building Python/FastAPI and React/TypeScript services. Daily user of Claude and other LLMs to accelerate research, prototyping, testing, and documentation while personally validating every technical decision against high standards.

## Education

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### Ege University

*BSc in Computer Engineering; CGPA: 3.60/4.0*

Izmir, Turkey  
09/2021 – Present

## Experience

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### Goodyear

*IT Intern*

Sakarya, Turkey  
08/2025

- Gained practical experience with network technologies, system design, and industrial IT infrastructure.
- Studied and configured DNS, DHCP, OSI model concepts, routing, ACLs, VLAN segmentation, and troubleshooting workflows.
- Built small full-stack and interactive projects with Node.js, Express.js, Socket.IO, Python, and Unity while improving documentation and systematic debugging skills.

## Projects

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### OptiAgent | Thesis Project

*Python, FastAPI, React, TypeScript, ChromaDB, SQLite*

- Designed an end-to-end AI system from the ground up that turns PDFs, documents, and images into grounded PowerPoint/PDF presentations using OCR, RAG, and LLM-based slide generation.
- Built an asynchronous FastAPI backend for ingestion, retrieval, slide planning, validation, diagnostics, and export workflows.
- Implemented a React + TypeScript web app, reusable slide renderer, live preview flow, and PPTX/PDF export path backed by a structured slide contract.

### E-Commerce SQL Database & Analytics

*PostgreSQL, PL/pgSQL, T-SQL, Data Analysis*

- Designed a production-style relational schema with foreign keys, cascade rules, performance indexes, reporting views, stored procedures, and triggers across parallel PostgreSQL and SQL Server (T-SQL) implementations.
- Wrote analytical SQL for monthly revenue trends, average order value, best-selling products, and customer RFM (Recency/Frequency/Monetary) segmentation using CTEs and window functions (NTILE, OVER).

### Vallum | Rust CLI Security Tool

*Rust, CLI, Security, Testing*

- Built a Rust CLI proxy that sits between AI agents and shell commands, preserving child exit codes while wrapping terminal output as untrusted data.
- Implemented secret redaction, prompt-injection neutralization, ANSI stripping, audit logs, configurable truncation, and command-specific output optimizers.
- Added property tests and a Criterion benchmark harness to verify scrubber/truncator behavior and reproduce token-savings measurements.

## Technical Skills

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**Languages:** Python, SQL, TypeScript, Go, Rust, Java

**Databases & Analytics:** PostgreSQL, SQL Server (T-SQL); window functions, views, stored procedures, triggers, RFM/KPI reporting

**AI & LLM:** Claude, Gemini API, RAG, vector embeddings (ChromaDB, Qdrant), OCR

**Web & Backend:** FastAPI, Node.js, REST APIs, React, Git

**Spoken Languages:** Turkish (Native), English (Fluent)