

# Ahmed Alshomaree

## AI-FOCUSED SOFTWARE ENGINEER

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Ahmad-Alshomaree

### PROFESSIONAL SUMMARY

Dynamic Software Engineer and Data Specialist with expertise in Generative AI, Cloud Architecture, and Data Engineering. Currently pursuing an international Software Engineering degree with a 3.5 GPA. Proven ability to build robust ETL pipelines and cloud-native applications, bridging Data Science with production-ready code. Certified in AWS Machine Learning and IBM Prompt Engineering, leveraging leadership skills to deliver scalable, data-driven solutions.

### TECHNICAL SKILLS

- **Programming:** Python (NumPy, Pandas, Scikit-learn), JavaScript (ES6+), TypeScript, Java, C++, SQL, R.
- **AI & Machine Learning:** Generative AI, Prompt Engineering, NLP, Computer Vision (CNN), LSTM, TensorFlow.
- **Web & Cloud:** React.js, Next.js, Node.js, Express, AWS, Docker, Vercel, Firebase.
- **Databases & Data:** PostgreSQL, MongoDB, Vector Databases (Pinecone, Milvus), ETL Tools, Web Scraping.
- **Tools:** Git/GitHub, Jenkins, Postman, Agile/Scrum, RESTful APIs.

### SOFT SKILLS

- Stakeholder Management
- Technical Documentation
- Relationship Management
- Complex Problem Solving
- Research & Development (R&D)
- Strategic Networking
- Student Advocacy
- Conflict Resolution
- Agile/Scrum Methodologies
- Cross-functional
- Analytical Thinking
- Time Management
- Adaptability
- Peer Review
- Teamwork
- Mentorship
- Sprint Planning

### EXPERIENCE

#### AI Internship | June 2025 - Dec 2025

##### BLC İletişim ve Güvenlik Sistemleri

- Enhanced AI-driven cloud infrastructures through effective collaboration with senior developers.
- Optimized cloud systems by leveraging Agile methodologies in a cross-functional team environment.
- Researched advanced cloud optimization techniques to improve system performance and efficiency.
- Conducted analysis on emerging cloud technologies, compiling comprehensive documentation for engineering teams.
- Facilitated knowledge sharing among teams by presenting findings on cloud optimization strategies.
- Participated in regular team meetings to align project goals and address technical challenges.

#### Student Representative | Feb 2025 - Dec 2025

##### Ostim Teknik University

- Facilitated effective communication between student body and administration, resolving academic and technical issues.
- Implemented conflict resolution strategies, enhancing collaboration and understanding among stakeholders.
- Forged strategic partnerships with local tech companies, expanding career opportunities for students.
- Organized internship fairs, connecting students with potential employers in the technology sector.
- Supported student initiatives by advocating for resources and services aligned with academic needs.

### PROJECTS

#### Energy Consumption Forecasting (LSTM):

- Developed a Deep Learning model using Long Short-Term Memory (LSTM) networks to predict power consumption patterns in major Spanish cities. Analyzed population density and historical usage data to improve forecast accuracy.
- GitHub Link <https://github.com/Ahmad-Alshomaree/Energy-Consumption-Forecasting-LSTM>

### Brain Tumor Prediction (Computer Vision)

- Engineered a Convolutional Neural Network (CNN) to classify brain tumors from medical imaging. Optimized model training on large-scale datasets to ensure high precision and recall in diagnostic suggestions.
- GitHub Link: <https://github.com/Ahmad-Alshomaree/Brain-Tumor-Prediction-Computer-Vision->

### Air Pollution Statistical Analysis

- Conducted a comprehensive statistical study on factors affecting Air Quality Index (AQI), including industrial proximity and population density.
- Utilized Python for data visualization and trend analysis.
- Git Hub Link: <https://github.com/Ahmad-Alshomaree/Air-Pollution>

## EDUCATION

### B.S. in Software Engineering | Ostim Teknik University 2022 – 2026

- Relevant Coursework: DBMS, Large Language Models (LLM), Pattern Recognition, ETL Pipelines, Big Data Analytics, Cloud Computing, Statistics, Etc.
- GPA: 3.5/4.0

## CERTIFICATIONS & BADGES

- **AWS Educate: Introduction to Generative AI** – Developed a fundamental understanding of foundation models and business use cases for Generative AI.
- **AWS Educate: Machine Learning Foundations** – Mastered the machine learning pipeline, from data preparation to model deployment and evaluation.
- **AWS Educate: Getting Started with Databases** – Gained hands-on experience in setting up Amazon RDS instances and performing SQL operations in the cloud.
- **AWS Educate: Getting Started with Storage** – Demonstrated proficiency in cloud storage solutions, specifically managing and retrieving objects using Amazon S3.
- **AWS Educate: Introduction to Cloud** – Built a foundational knowledge of AWS core services, cloud infrastructure, and the technical roles within cloud computing.
- **IBM: Generative AI – Prompt Engineering** – Focused on designing and optimizing prompts to enhance the performance of Large Language Models (LLMs).
- **DataCamp: Associate Data Analyst in SQL** – Demonstrated expertise in relational database management, data cleaning, and complex querying using SQL.
- **DataCamp: Associate Data Engineer in SQL** – Developed core data engineering skills including data modeling, joining datasets, and building reliable data pipelines in SQL.
- **DataCamp: Associate Data Scientist in Python** – Validated proficiency in exploratory data analysis (EDA), predictive modeling, and statistical techniques using Python.
- **DataCamp: Data Analyst with Python** – Mastered data manipulation and visualization using industry-standard libraries like Pandas, Matplotlib, and Seaborn.
- **DataCamp: Data Analyst with R** – Gained expertise in statistical computing and data visualization using R's Tidyverse, ggplot2, and dplyr packages.
- **DataCamp: Data Engineer in Python** – Acquired practical skills in building automated ETL processes and managing data workflows using Python.
- **Cisco: Cyber Threat Management** – Trained in network vulnerability assessment, cybersecurity governance, and incident response planning.