Kent Umut

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EDUCATION

Bachelor Computer Science - ETH Zürich   Zürich, Sep 2025- Current

Computer Science student at ETH Zürich, Switzerland's leading university and ranked #7 worldwide for Computer Science (QS 2025). ETH is globally recognized for its excellence in technology, AI research, and producing pioneers such as Albert Einstein.

St. Georg Austrian High School   Istanbul, Sep 2020 - Jun 2025

St. Georg College is an Austrian high school with a rigorous German-language curriculum, admitting only the top 0.5% of students nationwide. Graduated with 1.1 Matura (equivalent to GPA 4.0/4.0) and a diploma score of 94.12%, one of the highest distinctions at the school.

- Ranked #1 in GPA for 3 consecutive years in a highly competitive environment.
- President of the school's Model United Nations (MUN) club; organized a conference with 200+ participants.

WORK EXPERIENCE

Defne Telecommunications - Software Engineer Intern (5G Telecom Software)   Istanbul, Nov 2024 – Nov 2024

- Developed scalable, high-performance telecom solutions using Java and Spring Framework
- Designed and implemented robust backend systems and integrated RESTful APIs
- Collaborated on CI/CD pipelines and DevOps practices to streamline deployments
- Contributed to full-stack development with React.js, Node.js, and TypeScript

Porty Tech - Intern (startup with 1+ Million Dolar investments)   Istanbul, May 2023 – Nov 2023

- Worked in a $1M+ funded startup, closely collaborating with the founder and CEO to understand how to build, scale, and lead a technology-driven company.
- Actively participated in strategic meetings, gaining firsthand insights into entrepreneurship and early-stage decision-making.
- Contributed ideas on startup marketing, one of which was successfully implemented within the firm.
- Strengthened entrepreneurial thinking, team collaboration, and the ability to drive product and business growth in a lean startup environment.

PROJECTS

OpenAI RAG

A project focused on implementing Retrieval-Augmented Generation (RAG) with OpenAI, enabling more accurate and context-aware AI responses by integrating retrieval mechanisms with large language models.

- OpenAI API Integration: Leverages OpenAI's advanced language models for natural language processing tasks.
- Retrieval-Augmented Generation (RAG): Combines document retrieval with generative AI for improved context and factuality.
- Backend Development: Likely includes API endpoints for processing queries and document retrieval.
- Scalable Architecture: Designed for extensibility and efficient data handling.
- Use Cases: Can be applied to knowledge bases, chatbots, and automated Q&A systems.

Jarvis AI

A cross-platform AI transcription application that converts audio to text, featuring a modern interface and robust backend.

- Built with Electron for cross-platform desktop application delivery (Windows, Mac, Linux).
- TypeScript and React for a responsive, user-friendly frontend.
- Python backend for powerful speech recognition and natural language processing.

COURSES

Supervised Machine Learning: Regression and Classification (DeepLearning.AI)   Jun 2025

- Learned the foundations of supervised learning, including linear and logistic regression.
- Applied Python libraries (NumPy, Pandas, Scikit-learn) for building and evaluating ML models.
- Developed skills in feature engineering, overfitting prevention, and performance evaluation (ROC, precision-recall).

Harvard CS50x   Nov 2023

- **Programming:** Proficient in C, Python, JavaScript; strong grasp of syntax, data structures, and algorithms.
- **Problem Solving:** Enhanced analytical skills through complex computational challenges.
- **Web Development:** Basic knowledge of HTML, CSS, JavaScript, and Flask.
- **Database Management:** Basic understanding of SQL and database interaction.

LANGUAGES

Fluent in **English** and **German** both **C1** level, Turkish (Native)