Efe Katircioglu

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EDUCATION AND QUALIFICATIONS

King's College London, United Kingdom

Sept 2024 - Jun 2027

Bachelor of Science, Computer Science

Relevant modules: Data Structures, Database Systems, Software Engineering, Programming

In Progress: Introduction to AI, Robotics, Programming Language Design, Operating Systems and Concurrency

King's College London, United Kingdom International Foundation, Computer Science & Mathematics Graduated with First-Class Honours Sept 2023 - Jun 2024

RELEVANT WORK EXPERIENCE

King's Labs | Academy Software Engineer London, United Kingdom

Feb 2025 - Apr 2025

- Architected and deployed a full-stack Next.js application, implementing a secure authentication layer using NextAuth.js with Google OAuth provider.
- Developed a suite of RESTful API endpoints for CRUD operations on user-specific data models, hosted on a serverless Neon PostgreSQL instance to enforce strict multi-tenancy and data isolation. Deployed on Vercel for real-time user traffic.

PROJECTS

Vibe Generator | Founder & Software Engineer

Jun 2025 - Sep 2025

- Orchestrated an end-to-end user authentication and authorization flow leveraging the Spotify OAuth 2.0 framework, implementing stateless session management using JSON Web Tokens to secure API interactions.
- Engineered a high-throughput data aggregation pipeline in Node.js, concurrently ingesting data from over 6+
 external music APIs. Optimized ingestion logic by implementing parallel asynchronous requests, boosting data
 retrieval performance by 23x.
- Developed a dynamic, responsive frontend using a component-based architecture in Next.js and React that
 decreased the rendering time by 30%. Deployed the application on DigitalOcean Cloud Droplet, utilizing PM2 as a
 process manager.

Air Pollution Dashboard | Software Project Leader

Mar 2025 - Apr 2025

- Directed a cross-functional team of four in the end-to-end design and development of a JavaFX application to visualize complex environmental data of 5 million records from 2018-2023.
- Engineered and optimized the data ingestion and cleaning pipeline, which **reduced the processing time** for the entire dataset by **75%** and cut initial **application load time** by **50%**.

CERTIFICATIONS

Web Development Bootcamp - Udemy

Nov 2024 - Jun 2025

- Full-stack Web Developer certification covering the MERN stack (MongoDB, Express.js, React, Node.js).
- Gained proficiency in core technologies including in HTML, CSS, JavaScript, Node.js, React, and PostgreSQL.

TECHNICAL SKILLS

- Programming Languages: JavaScript, TypeScript, Java, Python, SQL, HTML, CSS
- Frameworks & Libraries: Next.js, React, Node.js, Express.js, JavaFX, NextAuth.js
- Other Tools: DigitalOcean, Vercel, PostgreSQL, Neon, Git, GitHub