Cagan Arda Ozkan

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# Education

**Lancaster University, Lancaster, UK | Bachelor of Science Honours in Computer Science** September 2023 – June 2026

## Lancaster Royal Grammar School, Lancaster, UK (Overall GPA: 3.6/4.0)

**A Levels:** Computer Science(B), Mathematics(A), Further Mathematics(B), Physics(C) September 2021 – June 2023

# Experience

## Software Engineering Fellow | Headstarter AI (Remote)

*June 2024 – August 2024*

* Collaborated in cross-functional teams to design and implement AI-driven solutions for clients.
* Developed an **AI flashcard generator** leveraging NLP models to convert arbitrary text into structured study aids.
* Built additional projects including a **web-based inventory tracker**, focusing on usability and maintainability.

## Teaching Assistant | Lancaster University, Computer Science Dept.

*January 2025 – Present*

* Assisted with debugging, data structures, and software design concepts in practical sessions.
* Mentored and guided **20+ students weekly** in Java, Python, and algorithms, improving understanding and confidence in labs.
* Supported faculty in refining lab materials to better align with lectures and learning outcomes.

# Projects

**Mentoro |** ***Next.js, PostgreSQL, Prisma, TypeScript, Stripe***

* Full-stack mentorship marketplace connecting students with tutors.
* Implemented **booking, reviews, messaging, and secure Stripe payments**.
* Designed scalable database schema hosted on Neon with Prisma ORM.

**Dapper (Graph Analysis Tool) | *Java***

* Engineered a command-line application that maps and analyzes node-edge relationships in large graphs.
* Focused on efficient data structures and graph traversal algorithms to guarantee performance.

**GenFlashcards AI | *Next.js, Firebase, Vercel***

* Designed and launched an AI-powered flashcard generator that converts raw text into structured decks.
* Deployed on Vercel, used Firebase for data storage, enabling students to create sets instantly.

# Technical Skills

**Languages:** Java, JavaScript, Python, SQL, C, C++, HTML, CSS, TypeScript

**Frameworks & Libraries:** React, Next.js, Vite.js

**Tools & Platforms:** Git, GitHub, VS Code, Firebase, Vercel, Neon, Stripe, PostgreSQL, Prisma

**Areas of Interest:** Full-Stack Development, Artificial Intelligence, Blockchain & Web3, Virtual Reality