Cagan Arda Ozkan

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# Education

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

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

**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 commercial clients.
* Built an AI flashcard generator leveraging NLP models, enabling users to convert arbitrary text into study aids and more projects including a web application for inventory tracker.

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

*January 2025 – Present*

* Assisted in weekly programming lab sessions for 20+ students, clarifying concepts in Java, Python, and algorithms.
* Guided students through debugging and problem-solving, strengthening understanding of data structures and software design.
* Collaborated with faculty to improve lab materials, ensuring exercises aligned with lecture content and learning outcomes.

# Projects

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

* Built a full-stack mentorship marketplace connecting students with private tutors; integrated Stripe for secure payments.
* Architected scalable PostgreSQL schema with Prisma ORM, hosted on Neon for remote persistence.
* Implemented booking, reviews, and messaging.

**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, Blockchain & Web3, Virtual Reality