Aran Jannson

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AranJannson

Experience

University Of Surrey, Lab Helper

Guildford, UK
Oct 2023 – Jan 2024

- Assisted 1st year students in the Web and Database Systems Module during semester 1 of the 2023 - 24 academic year
- This role enabled me to engage directly with students, aiding their understanding of complex web and database concepts.
- Tools Used: SQL, MySQL, Node.js, HTML, CSS, Laragon, EERD

University Of Surrey, Lab Helper

Guildford, UK
Sept 2024 – May 2025

- My job in this position is too assist both groups of 2nd year Computer Science students at the university, learn the Django framework paired with a React frontend in lab sessions. Answering any question the students have and pointing them in the right direction to succeed in the module.
- This role enabled me to engage directly with students, aiding their understanding of web application frameworks and tools.
- Tools Used: Django, React, SQL, Django REST Framework

Surrey Computing Society, Web Developer

Guildford, UK
Sept 2023 – May 2024

- Developed and maintained the University Of Surrey Computing Societies website
- Tools Used: Nuxt 2.0, Typescript

Team Surrey Karting, Web Developer and Social Media Manager

Guildford, UK
May 2024 – May 2025

- Developed and maintained the Team Surrey Karting website as well as managed the social media accounts in creating posts as well as replying to messages.
- Tools Used: Next.js, SQLite, Typescript, TailwindCSS, SQL

Surrey University Racing Team Engineering Solutions, Senior Full-Stack Software Engineer

Guildford, UK
Aug 2024 – May 2025

- Tasked with developing web applications as well as assist in designing additional software for Team Surtes as requested.

Education

MSc	**University Of Surrey**, Cyber Security	Guildford, UK Sept 2025 – Sept 2026
BSc	**University Of Surrey**, Computer Science	Guildford, UK Sept 2022 – June 2025

- **Grade:** First Class Honours
- **Dissertation:** Attribute-Based Authorisation as a Micro-service with Dynamic Encryption Selection

Lise Diploma   **Necat British College**,

Nicosia, CY
Sept 2018 – June 2022

- GPA: 8.43/10.0
- Award for Academic Progress In IT
- Includes: Pure Mathematics, Decision Mathematics, Information Technology, Computer Science, ICT, English, Turkish

IAL	**Necat British College**,	Nicosia, CY Sept 2020 – June 2022

- Information Technology: A
- Computer Science: C

IGCSE	**Necat British College**,	Karavas, CY Sept 2018 – June 2020

- Information Communication Technology: A*
- Computer Science: A
- Turkish (First Language): A
- Maths (Higher Tier): 6
- English (First Language): C

Projects

ABAC Authorisation as a Micro-service with Dynamic Encryption Selection Link To Website ↗

- This project provides an Attribute-Based Access Control (ABAC) authorisation system designed for low end devices with limited resources. Users can securely share files using a token based sharing scheme, where these tokens include access permissions and an access time frame. The system is implemented using a microservice architecture to ensure lightweight, scalable performance on a large number of hardware levels. The system dynamically selects an encryption profile based on the hardware capabilities of the device, in order to provide more secure algorithms when system resources allow it. More efficient profiles are chosen when the hardware of the systems is capable of processing the requirements efficiently. A web application demo is used to provide the system, featuring an interface that enables file navigation, access, and sharing through QR codes or shareable links. This project highlights how dynamic encryption profiles, combined with ABAC permission tokens, can provide secure and efficient access control even on resource limited systems.

Portfolio Website (Next.js) Link To Website ↗

- I have redesigned my portfolio website, transitioning it to Next.js with Typescript to create a dynamic, multi-functional platform. This new version showcase's my projects, provides comprehensive information about me, and includes an integrated booking system for project collaborations, support in university modules where I am a lab helper, and assistance for the societies I contribute to. The site support's English, Turkish, and Greek using i18n and features both light and dark mode themes implemented with TailwindCSS.

Eunoias Audit Report ↗

- To solve the problem of nurturing a healthy workforce, we decided to create a platform for companies to help improve their employees' mental health (via the counselor) while maintaining professionalism. This app has many features to reach this goal such as mental health assessments, an intervention system in which counselors can help employees facing challenges, and a leaderboard to promote healthy competition which in turn, helps each user. Managers with admin permissions will also have a dashboard with moderative capabilities. The user will also have a dashboard showing statistics, articles, and challenges. This project was apart of the Green Tech Jam competition.

Portfolio Website (Nuxt.js 3.0) Github Repo ↗

- I created a website to display my projects and achivements, along with my current interests and skills.

Surrey CompSoc Website (2023-2024) Github Repo ↗

- As the Web Master for the University Of Surrey Computing Society in 2023- 2024, I was tasked with creating a new web application for the society.

Java For Beginners   Github Repo ⬀

- A simple project of a list of tasks in Java to allow a user to learn the core concepts.

Awards

Green Tech Jam 2nd Place   2024

- Me and my friend where awarded 2nd place at the Green Tech Jam awards ceremony during the our second year at the University Of Surrey. The award was part of a competition built into our Software Engineering module and we were competing against teams made up by the rest of the class.
- Our Project was based on Mental Health and Physical Wellbeing in the work place where we had been tasked to create a web application to tackle this issue.
- Award: £1000

Academic Progress in IT   2022

- This award was given to me at my graduation ceremony for my Lise Diploma. I was one of the only two people to receive such an award and was awarded due to my academic success in IT and Computer Science.
- Award: Trophy

Technologies

Languages: C++, Java, C#, SQL, JavaScript, TypeScript, HTML, CSS, Python, SCSS, TailwindCSS, MySQL, SQLite, Bash

Technologies: Next.js, Nuxt.js 2.0, Nuxt.js 3.0, React, Vue.js, Django, Docker

Languages

English — Native-level proficiency
Turkish — Native-level proficiency