

Aran Jansson

📍 Guildford, UK | 🌐 www.aranjansson.com | ✉ me@aranjansson.com
in [linkedin.com/in/aranjansson](https://www.linkedin.com/in/aranjansson) | 🐙 github.com/AranJansson

EDUCATION

University of Surrey | MSc Cyber Security

Focuses: Digital Forensics, Cloud Security, Network Security, Secure Systems, Cryptography

Guildford, UK

September 2025 – September 2026

University of Surrey | BSc Computer Science

Grade: First Class Honours

Dissertation Name/Topic:

Attribute-Based Authorisation as a Micro-service with Dynamic Encryption Selection

Guildford, UK

September 2022 – June 2025

Necat British College | Lise Diploma

GPA: 8.43/10.0

Focuses: Pure Mathematics, Decision Mathematics, Information Technology, Computer Science, ICT, English, Turkish

Nicosia, CY

September 2018 – June 2022

EXPERIENCE

University of Surrey | Lab Assistant

October 2023 - Present

- Guided students through web, database, core security paradigms, and software engineering concepts across undergraduate modules.
- Supported development of full-stack applications using Django, React, SQL, and REST APIs.
- Assisted with database design, data modelling, and debugging during labs and coursework.
- Taught fundamental cryptography schemes such as Textbook-RSA, AES, DES, and CBC-MAC

Team Surrey Karting | Web Developer and Social Media Manager

April 2024 - May 2026

- Developed and maintained the Team Surrey Karting website.
- **Tech Stack: Next.js, TypeScript, SQLite, TailwindCSS**

Surrey University Racing Team Engineering Solutions, | Software Engineer

March 2024 - June 2025

- Consulted and led on adapting an existing code base, as requested by the new committee, to update their CMS implementation and improve functionality to update suppliers.
- **Tech Stack: Next.js, TypeScript, PostgreSQL, TailwindCSS**

Surrey Computing Society | Web Developer

September 2023 - May 2024

- Developed and maintained the University of Surrey CompSoc website using Nuxt.js and TypeScript.
- GitHub Repository

SKILLS

Languages: TypeScript, Python, Java, C++, SQL, Bash

Web: HTML, CSS, SCSS, TailwindCSS

Frameworks: Next.js, React, Nuxt.js, Django, Express.js

Databases: MySQL, SQLite

Tools: Docker

Cloud Providers: AWS, Digital Ocean

Spoken Languages: English (Native-level proficiency), Turkish (Native-level proficiency)

PROJECTS

ABAC Authorisation as a Micro-service with Dynamic Encryption Selection [Link To Website](#) *Dissertation*

- Designed and implemented an Attribute-Based Access Control (ABAC) system for low-compute architectures using a microservice-based approach.
- Developed dynamic encryption selection logic to adapt cryptographic strength for available system resources.
- Balanced security guarantees and performance constraints to support resource-constrained and embedded environments.
- Implemented secure, token-based authorisation flows to enforce fine-grained access policies across services.

Portfolio Website (Next.js) [Link To Website](#) *Portfolio*

- Engineered a full-stack portfolio platform using **Next.js** and **TypeScript** to showcase projects, experience, and technical expertise.
- Built a secure **admin dashboard** enabling full **CRUD operations** for content management.
- Implemented **calendar management functionality** enabling scheduling, availability tracking, and job request management.
- Developed an **integrated booking system** supporting project collaborations, academic support, and society-related work.
- Added **internationalisation (i18n)** with English, Turkish, and Greek language support, alongside responsive **UI** using **TailwindCSS** and **Framer Motion**.

Eunoias [Link To Website](#) *Green Tech Jam — Software Engineering Project*

- Co-developed a workforce **mental health and wellbeing platform** designed to balance employee support with organisational professionalism.
- Implemented **mental health assessments** and a **counsellor-led intervention system** to support employees facing challenges.
- Built **role-based dashboards** for employees and managers, including moderation and administrative capabilities.
- Designed engagement features such as **leaderboards and challenges** to promote positive behavioural change.
- Awarded **2nd Place** at **Green Tech Jam 2024** for technical execution and social impact.

Vendur [Link To Website](#) *Group Software Engineering Project*

- Designed and implemented a **component-based microservices architecture** for an e-commerce platform targeting small to medium-sized businesses.
- Addressed scalability and maintainability challenges through **service decomposition** and modular backend design.
- Collaborated within a team following **software engineering best practices**, including version control, structured development cycles, and documentation.

AWARDS

Green Tech Jam 2024

2nd Place | £1000

- * Awarded **2nd Place** at Green Tech Jam 2024 for a mental health and wellbeing web platform developed as part of a competitive software engineering challenge.

Academic Progress in IT 2022

Academic Award: Trophy

- * 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.