

Aran Jansson

MSc Cyber Security Student | Software & Security Engineering
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SUMMARY

MSc Cyber Security student at the University of Surrey with a First-Class BSc in Computer Science. I take security from theory into working software, from an attribute-based authorisation microservice with dynamic encryption selection to full-stack platforms built for university societies and enjoy executing complex problems into practical, deliverable solutions.

EDUCATION

University of Surrey | MSc Cyber Security Guildford, UK
Notable Modules: Digital Forensics (84%), Cloud Security (79%), Security Management & Governance (78%), Secure Systems & Applications (78%) Sep 2025 – Sep 2026

University of Surrey | BSc Computer Science – First Class Honours Guildford, UK
Notable Modules: Software Engineering Project (89%), Ethical Hacking & Penetration Testing (77%), Advanced Challenges in Web Technologies (76%) Sep 2022 – Jun 2025

Necat British College | Lise Diploma Nicosia, CY
GPA 8.43/10.0 Sep 2018 – Jun 2022

PROJECTS

ABAC Authorisation as a Microservice with Dynamic Encryption Selection | Dissertation [Link to Project](#)

- Tackled the problem of enforcing fine-grained access control on low-compute and embedded devices, where fixed heavyweight cryptography is impractical, by decomposing authorisation into a standalone microservice.
- Designed dynamic encryption selection logic that adapts cryptographic strength to the resources available at runtime, balancing security guarantees against performance constraints.
- Delivered secure token-based authorisation flows (TypeScript, Next.js) enforcing fine-grained, per-attribute policies across services.

Eunoias | Green Tech Jam – 2nd Place [Link to Project](#)

- Co-developed a workforce mental-health platform addressing the gap between employee support and organisational professionalism: assessments feed a counsellor-led intervention system, with role-based dashboards for employees, managers, and moderators.
- Awarded 2nd place (£1,000) from a competitive field for technical execution and social impact.

Vendur | Group Software Engineering Project [Link to Project](#)

- Solved the scalability and maintainability constraints of a monolithic e-commerce design for small businesses by decomposing it into component-based microservices, delivered in a team with structured development cycles, version control, and documentation.

Portfolio Website | Personal Project [Link to Project](#)

- Full-stack platform (Next.js, TypeScript) with a secure admin dashboard, integrated booking and calendar management, and internationalisation in English, Turkish, and Greek.

EXPERIENCE

University of Surrey | Lab Assistant Oct 2023 – Present

- Teach undergraduates to decompose problems across web, database, security, and software engineering modules – from debugging full-stack coursework (Django, React, SQL, REST APIs) to working through cryptographic schemes (RSA, AES, DES, CBC-MAC).
- Guide database design, data modelling, and debugging during labs, helping students turn requirements into working solutions.

Surrey University Racing Team Engineering Solutions | Software Engineer Mar 2024 – Jun 2025

- Consulted for the incoming committee on an inherited codebase: led the CMS rework and rebuilt the supplier-update workflow (Next.js, TypeScript, PostgreSQL) so the team could manage content without developer intervention.

Team Surrey Karting | Web Developer & Social Media Manager Apr 2024 – May 2026

- Built and maintain the club's website (Next.js, TypeScript, SQLite, TailwindCSS) and run its social media presence.

Surrey Computing Society | Web Developer Sep 2023 – May 2024

- Developed and maintained the society's website (Nuxt.js, TypeScript) – GitHub.

SKILLS, AWARDS & LANGUAGES

Skills: TypeScript, Python, Java, C++, SQL, Bash | Next.js, React, Nuxt.js, Django, Express.js, TailwindCSS | MySQL, SQLite, PostgreSQL | Docker, AWS, DigitalOcean

Awards: Green Tech Jam 2024 – 2nd Place (£1,000); Academic Progress in IT – Necat British College (2022, one of two recipients).

Spoken Languages: English (native-level), Turkish (native-level).