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SUMMARY

A motivated computer Science undergraduate at the University of Surrey, aiming for a placement in Space Software Engineering. Strong skills in Java, Python, REST APIs, databases, and AI applications, with experience building tested software systems in both academic and hackathon settings. Curious about applying software engineering to space, infrastructure, and mobility technologies, with proven ability to collaborate in agile teams and communicate effectively

SKILLS

- **Programming & Tools:** Java, Python, JavaScript (React, Flask), Git/GitHub, SQL (SQLite, MySQL), JUnit, PyTorch
- **Software Engineering:** REST APIs, MVC design, agile teamwork, debugging, documentation
- **Core Strengths:** Problem solving, teamwork, communication, adaptability

WEBSITES, PORTFOLIOS, PROFILES

- <https://www.linkedin.com/in/daniel-dakin-792613338/>
- <https://github.com/dDakin06>

Daniel Dakin

EXPERIENCE

January 2022 - Current

Stock Control & Customer Experience Assistant Tesco

- Maintained stock accuracy and resolved customer queries in a fast paced, problem solving environment.
- Collaborated effectively with colleagues to adapt to changing priorities demonstrating teamwork, flexibility, and communication skills.
- Recognised by team leaders for reliability and consistency, transferable to software engineering projects

EDUCATION

A-Levels

Garth Hill College Sixth Form

- 2022 – 2024 | Maths (B), Business (B), Computer Science (C)

BSc | Computer Science

University of Surrey

- 2024 – Present | First Year Average: 69.75% (on track for First Class Honours)

Siemens: Technology Virtual Work Experience , Springpod

- Completed a virtual work experience programme exploring digital twins, sustainability, and future technologies gaining insights into how Siemens applies innovation in areas such as smart infrastructure, energy, and digitalisation.
- Worked on scenario-based challenges, including using digital twins to plan real-world problem solutions.

HOBBIES AND INTERESTS

Strong interest in Artificial Intelligence and its role in solving real world challenges. Enjoy staying active through football, fitness, and climbing, which build teamwork, focus, and resilience. Strong interest in space, especially in the limitless things that there is still to discover.

PROJECTS

- **Movie Search API(Java REST API):** Built a movie search API with Java, Javalin, SQLite (MVC design). Implemented rating/filters and unit tests.
- **Process Scheduler (Java, OS):** Implemented FCFS, Round Robin, and Priority scheduling using multithreading and JUnit testing.
- **AI Wallet Explainer (Hackathon):** Created a web app with React, Flask, Etherscan API & OpenAI. Collaborated in a team using agile methods.
- **MovieSystem– Cinema Booking System (C# & SQL Server):** Developed a Windows Forms app with a SQL Server backend to handle movie seat reservations and payments. Implemented customer details, booking validation, and payment processing with a user-friendly GUI.