Kyle Kinsella

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SUMMARY:

- Aspiring Software Developer, proficient in languages such as: Go, C++, Java, Python and others. Passionate about creating efficient, maintainable and testable software and eager to contribute to real-world projects. Experienced in retail role at Movies@ Gorey, where I developed excellent communication, problem-solving and teamwork skills. My career goals include combining my technical knowledge and interpersonal strengths to launch a successful career in software development.

Technical Skills:

- **Languages:** Go, C, C++, Java, Python, PHP, JavaScript (AJAX).
- **Tools & Frameworks:** Git, GitHub, VS Code, Docker, Spring Boot, Linux (Ubuntu, Pop!_OS).
- **Concepts:** Unit Testing, UML, Design Patterns, Data Structures and Algorithms, REST API Design & Development, Agile (Scrum, Kanban), Test-Driven Development (TDD), DevOps (CI/CD).
- **Databases:** Microsoft SQL Server, MySQL.

EDUCATION:

Bachelor of Science (Honours) Software Development
South East Technological University, 2021-2025

- Coursework includes Programming languages such as C++, Java, Go and others, together with Unified Modeling Language (UML), Design Patterns, Unit Testing, Data Structures and Algorithms, Operating Systems, Data Science and Machine Learning, Concurrent Development and additional software development topics.

Projects:

Throughout my four years in college and personal development afterwards, I have designed and built multiple software projects across different technology stacks. Below are my most developed and impactful projects:

- **Random Test Data Generation (College):** Developed a tool to automatically generate structured test cases for the Java testing library **JUnit**, improving test coverage and efficiency. This strengthened my knowledge of automation, reusable component design and software reliability. Random Test Data Generation.
- **Kyle Connect (College):** I developed a communication system for my final year project, focusing on key features such as one-to-one messaging, creation of servers (group chats) and many more. This project was built using **HTML, CSS, Go, MySQL** and **Docker**. Kyle Connect.
- **Building an Interpreter (Personal):** Created a fully functional programming language interpreter in **Go**. Gained deep experience in **lexing (tokenizing source code), parsing (constructing an Abstract Syntax Tree using Pratt Parsing)** and **evaluation** of the AST. This project was both challenging and highly rewarding. Interpreter in Go.
- **Blockchain from Scratch (Personal):** I'm currently building a full-stack blockchain simulation using **HTML, CSS, JavaScript, React, Go** and **Git**. This project showcases my ability to design user-friendly interfaces, implement blockchain logic on the backend and coordinate dynamic front-end functionality. Blockchain from Scratch.

EXPERIENCE:

Retail Sales Associate (General Operative): March, 2022 - September, 2025.

Movies@ Gorey

- Provided excellent customer service by assisting customers with ticket purchases, seating arrangements and ensuring an enjoyable cinema experience.
- Operating tills with precision and efficiency. Handling high-volume sales during peak hours while maintaining accuracy in transactions and adherence to cash-handling procedures.
- Resolved customer queries using active listening and problem-solving skills.