

Ran Tian

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GitHub



Personal Profile

Computer Science MSc student with a background in hospitality management, bringing a unique perspective to software development. Passionate about writing clean, maintainable code and designing intuitive software solutions. Proficient in C, Java, and experienced in applying software engineering best practices, including version control, agile development, and test-driven development. Hands-on experience in building applications that balance functionality and aesthetics. Developed strong problem-solving skills through technical projects and honed leadership and communication abilities as a class representative. Seeking an entry-level software development role where I can combine technical expertise with user-centric design to create efficient, elegant, and scalable solutions.

Education

University of Bristol, MSc Computer Science (Conversion)

Sep 2024 - Sep 2025

Relevant coursework: C Programming, Software Engineering, Java OOP, Git, SQL, Web Tech, Computer Architecture

Edinburgh Napier University (Singapore Campus), BSc (Hons) Hospitality and Tourism Management

Jul 2019 - Nov 2022

SHATEC (Singapore Hotel and Tourism Education Centre), Diploma in Hotel Management

Apr 2015 - Dec 2017

Skills

Technical: Backend/frontend development, Git, UI/UX, responsive design, web technologies.

Languages: C, Java, JavaScript, HTML, CSS, SQL, P5.js

Soft Skills: Teamwork, problem-solving, adaptability, leadership, time management.

Projects

Database Management System (Java, SQL)

- Designed a **DBMS** with SQL-like query execution and indexing for efficient data retrieval.
- Implemented **persistent storage** and **error handling** to ensure data integrity.
- Applied **OOP** and **TDD** for maintainability and robustness.

Dino Escape Game (p5.js, Agile)

- Developed a **browser-based survival game** using p5.js with real-time interactions.
- Followed **Agile methodologies** and used Git for version control.
- Implemented **game mechanics** such as health depletion and resource collection.
- Project Link: [GitHub Repository](#)

Emergency Migration Management System (Java, SQL, UI/UX) — Personal Project (Planned Summer 2025)

- Researched inefficiencies in real-world government systems (e.g., UK's "Homes for Ukraine").
- Designed a **database-driven system** for refugee placement and data management.
- Created **data visualization prototypes** to enhance usability and reporting.

Work Experience

Course Representative

University of Bristol, Sep 2024 - Present

- Served as the primary liaison between students and faculty, advocating for academic improvements.
- Collected and presented student feedback and collaborated with faculty on curriculum enhancements.

Marketing Planner & Frontend Developer
May 2023

Shanghai Electric Technology (China), Aug 2021 -

- Led website development and social media campaigns, increasing brand visibility.

Software Prototyping & Digital Marketing Specialist & Frontend Developer
Mar 2019 - Aug 2021

Nsecsoft (China),

- Developed and maintained company websites, improving UX and accessibility.
- Designed UI prototypes using Axure and optimized front-end performance.
- Project Link: [Company Website](#)