

# Kinan Maarrawi

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*"Computer Science student with strong fundamentals, a systems-oriented mindset, and a track record of building real, well-engineered software across multiple domains."*

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## EDUCATION

### University of Birmingham

MEng Computer Science with Software Engineering

Dubai, UAE

September 2023 - Present

**SKILLS:** Java, Python, JavaScript, Haskell, C, SQL • Git, React • Full-Stack development, systems programming

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## ACTIVITIES & EXPERIENCE

### DORZ

Software Intern

Dubai, UAE

July 2025 - September 2025

- Designed, developed and implemented a full stack ride-booking service into the DORZ mobile application
- Integrated third party APIs for ride fares, ride status, map live tracking, saved locations among other features
- Implemented back end and front end core features independently

### Student Entrepreneurship Association (SEA)

Head of Volunteers

Dubai, UAE

October 2024 - Present

- Worked with the executive team to bring SEA from 0 to over 500 members in one academic year
- Successfully co-ordinated on-ground operations of 'Entrepreneurship Day', the university's largest event to date, which won 'Outstanding Activity of the Year'
- Organized and led volunteer teams across events, talks, and presentations, ensuring smooth execution

### University of Birmingham School of Computer Science

Student Representative

Dubai, UAE

October 2024 - Present

- Collected and communicated student feedback to faculty through Student-Staff Forums, improving academic experience
- Acted as a liaison between students and faculty, ensuring clear communication in an organized manner
- Promoted collaboration between students and staff, helping build a more engaged academic community

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## PERSONAL PROJECTS

### Terra-TUI

November 2025

- Developed a terminal-based world engine in Haskell, implementing dynamic viewport rendering and real-time input handling
- Built a procedural terrain generator using Perlin/OpenSimplex-style noise, with biomes and deterministic world seeds
- Designed scalable game-engine-like architecture with lazy chunk discovery, coordinate mapping, and pure functional state management

### Dorz 'Book a Ride'

September 2025

- Developed a ride-booking MVP for the Dorz app with integrated Yango ride-hailing service, including real time ride options and pricing from Yango API for multiple ride classes
- Implemented dynamic location selection via map, search, saved addresses, and Google Maps links via regex parsing.
- Built simulated booking, payment, and ride tracking flows, including ride history and persistent saved addresses.

### Password Manager (C)

February 2025

- Built a command-line password manager in C, implementing secure password storage with AES encryption via OpenSSL
- Integrated SQLite for persistent credential management, and applied regex-based rules for password validation
- Added functionality for random password generation and database configuration, gaining practical experience in systems programming and security-focused development

