Zhongheng Liu

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Education

BSc	**Delft University of Technology**, Computer Science and Engineering	Sept 2025 – Ongoing

- **Coursework:** Computer Organisation, Computer Networks, Probability Theory and Statistics, Algorithms and Data Structures, Machine Learning, Computer Graphics, Computability and Complexity, Algorithm Design

Projects

Matrix operations library   steven/matrix-rs ↗

- Created a library implementing mathematics operations on matrices with vectors, other matrices, or real numbers.
- Tools used: Rust, Cargo

Spring Boot Web Messaging Application with WebSockets   see technical demo (YouTube) ↗

- Developed back-end software using Spring Boot, WebSockets and integrating JPA data sources to serve a web messaging server.
- Developed a responsive front-end application in React and TypeScript.
- An internationalized UI with translations in select languages is offered.
- Tools used: SQL, Java, Spring Boot, Maven, React, TypeScript, STOMP.

Experimental Implementation of Planetary Gravitation   steven/planets-bevy-rs ↗

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: Rust, Bevy Engine

Technologies

Languages: Java, JavaScript/TypeScript, Rust, C/C++

Technologies: MySQL, MongoDB, Nginx, Spring Boot, Maven, Gradle

Languages

Mandarin: Native
English: Reading C2 | Writing C2 | Speaking C2 | Listening C2 | Certificate ↗
Dutch: Reading A2 | Writing A2 | Speaking A2 | Listening A2 | Certificate ↗

More to be added soon...