

HENGCHANG QI

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EDUCATION

SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN

SINGAPORE

Information Systems Technology and Design (ISTD)

Sep 2022 – Jun 2026

- Pathways: Computational Thinking for Design (Python Programming), Algorithms, Introduction to Information Systems & Programming (Java Programming), Computer System Engineering (Operating System), Foundations of Cybersecurity

INTERNSHIP EXPERIENCE

AZENDIAN SOLUTIONS PTE. LTD.

SINGAPORE

Full Stack Developer Intern, Data Analytics Intern

Aug 2024 – Present

- Developed responsive front-end interfaces for industrial control systems across multiple locations using ReactJS, HTML, CSS, and JavaScript, leveraging Inkscape for SVG manipulation and design
- Performed predictive analysis and visualization with Python, optimizing system performance across locations and periods
- Utilized version control with Git for collaborative development and code management
- Integrated RESTful APIs to facilitate communication between front-end and back-end systems

CHINA TELECOM SYSTEM INTEGRATION CO., LTD.

HAIKOU, CHINA

Backend Development Intern

May 2023 – Aug 2023

- Acquired proficiency in mainstream open-source frameworks, including Spring, Spring Boot, Mybatis, Spring Security, and Dubbo, as well as showcased proficiency in Linux commands
- Developed a library management system with MySQL and joint development tools comprising IDEA, Git, and Maven.
- Submitted detailed weekly progress reports to track and document the project development cycles

PROFICIENCY

- Mastery of MySQL, with deep knowledge of data structures, storage engines, transactions, MVCC, and SQL optimization
- Competent in Vue.js and React frameworks, adapting to development tools including Visual Studio Code, NPM, Webpack, IDEA, Git, and Maven
- Proficient in Spring, Spring Boot, Mybatis, Spring Security, Dubbo, and Linux server deployment
- Trained in concurrent programming paradigms, deadlock resolution, and performance optimization, well-versed in concepts like Volatile, Synchronized, ReentrantLock, and Semaphore
- Primarily proficient in Java, skilled in C++, Python and Kotlin, with a basic understanding of Golang

PROJECT EXPERIENCE

SUTD FOOD REVIEW APP

SINGAPORE

Android Developer, Team Leader

Feb 2024 – Apr 2024

- Spearheaded a team of 4 in developing Fovoro, a Java-based app designed to enhance the user experience at SUTD's campus dining outlets by facilitating seamless browsing, reviewing, and interaction with menus and stores
- Implemented RecyclerView for efficiently optimized menu display and integrated Firebase for secure user authentication and real-time data synchronization, facilitating multiple users to log in and contribute reviews securely

TANK BATTLE GAME

VIRTUAL

Developer

Apr 2023 – May 2023

- Engineered a multi-threaded tank battle game in Java, utilizing synchronized control for seamless thread management, executing dedicated threads for the enemy, screen refreshing, and collision detection utilizing property queues.
- Optimized game performance through double-buffering techniques for smooth graphics rendering. Resolved shared variable conflicts and CPU time slice contention issues by implementing a centralized, single-threaded control variable, ensuring stable gameplay

AWARDS & INTERESTS

- Awards: UK Senior Mathematical Challenge 2019 -- Silver Certificate (top 10% worldwide), ASDAN MINI MBA 2019 -- COPE certificate (top 20% worldwide), ASDAN Business Simulation 2019 (top 60% countrywide)
- Volunteered at RHS Garden Bridgewater's Chinese Streamside Garden, engaging 1,000+ ethnic minority youth in horticultural education over four months, promoting cultural awareness and environmental education
- Languages: Fluent in English and Mandarin, IELTS: 7 (L8 R7 W6.5 S6.5)
- Interests: Popping Dance (Member of DSWAG Club, 2023 National University of Singapore Chinese New Year Gala performer)
- Content Blogger: Shared study experiences in Singapore, amassing 200,000 views and garnering 15,000 likes and shares on the Xiaohongshu platform