

Wang Jiahua

Undergraduate CS Student — Software Engineering — Web & Backend Systems
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EDUCATION

National University of Singapore

2025 – 2029

BComp (Computer Science)

Expected May 2029

- **Relevant Coursework:** Data Structures & Algorithms, Discrete Mathematics, Programming Methodology, Linear Algebra, Probability and Statistics
- **Honors:** NUS Merit Scholarship; Dean's List (Y1S1)

Raffles Institution

2017 – 2022

GCE A Level Programme

Graduated

- **Courses:** H2 Physics, H2 Chemistry, H2 & H3 Mathematics, H2 Economics
- **Results and Honors:** 90 RP + H3 Distinction; EduSave EAGLES Award

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Golang

Technologies: Node.js, React.js, Next.js, Gin, python-telegram-bot

Tools: Linear, Git, Figma, Vercel, Render, Netlify

EXPERIENCE

Full Stack Web Developer & Executive Committee Member

Jan 2023 – Jan 2025

Singapore Chemistry League (SchL)

- Designed challenging chemistry problems (2023-2024), engaging **2000 participants annually**.
- Transitioned to Full Stack Web Developer role; implemented **live, auto-updating dashboard** for real-time question tracking and competition progress, collaborating with designers.
- Developed and maintained backend question-unlocking logic using **RESTful APIs** and an **AWS RDS** database, ensuring consistent and reliable state updates.

College Student Committee Member (Technology Sub-comm)

Aug 2025 – Ongoing

NUS Residential College 4

- Built a Telegram bot to allow residents to self-register and book college facilities, with automated admin notifications for approval or rejection, streamlining the booking process for hundreds of users.
- Implemented backend logic using **python-telegram-bot** to handle bookings, user notifications, and admin workflow reliably and efficiently.
- Designed for portability; the bot can be easily adapted for use by other residential colleges.

Software Engineer

Aug 2025 – Ongoing

8StarLabs UI

- Contributed to a niche React UI library built on top of **Shadcn registry**, creating specialized components beyond generic buttons and forms (Website | GitHub)
- Designed and implemented purpose-built components such as **Timeline, Heatmap, and Flip Clock** to solve real-world frontend problems not addressed by typical libraries.

PROJECTS

CivicAid | National AI Student Challenge 2025 (GitHub)

Mar. 2025 – May 2025

- Built a **React** front-end with an **AI-powered chatbot** to enable citizens to report municipal issues and interact with authorities, leveraging AI for categorization and routing to admins.
- Implemented community engagement features, allowing users to **upvote and comment** on reports to prioritize local concerns.
- Assisted in developing a robust backend using **Express.js** and **Python Flask**, hosted on **Huawei Cloud**, ensuring scalability and reliability.
- Awarded **1st Place** in the Huawei-sponsored track, outperforming **200+ teams**.