

# TAN YU HANG

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## EDUCATION

### National University of Singapore

Bachelor of Computing in Computer Science

GPA: 4.7/5 (First Class Honours)

*Relevant Modules:* Discrete Structures (A), Programming Methodology I (A+), Programming Methodology II (A), Linear Algebra for Computing (A), Probability and Statistics (A), Data Structures and Algorithms (A-), Software Engineering (A-), Computer Organisation (A-)

Aug 2024 – Dec 2027

## SKILLS

- **Programming Languages:** Python (Proficient), Java (Proficient), JavaScript/TypeScript (Proficient), C (Working), SQL (Proficient), HTML/CSS (Working)
- **Frontend:** React (Vite), React Native (Expo)
- **Backend:** Node.js, Express.js, FastAPI
- **Databases:** MySQL, Supabase, PostgreSQL
- **Testing/Other:** JUnit, JavaFX

## WORK EXPERIENCE

### ECICS

*Full Stack Developer Intern*

Aug 2025 – Present

- Optimised Robotic Process Automation to improve error rate.
- Refactored code from legacy systems to accommodate upgrading.
- Built UiPath Python Robotic Process Automation to improve speed and accuracy with legacy systems.

### NUS School of Computing

*Teaching Assistant – CS1101S*

Jan 2025 – May 2025

- Conducted weekly 2-hour tutorial sessions, reinforcing core CS concepts and mentoring problem-solving skills.
- Achieved 5.0/5.0 Teaching Feedback score (4.3 department average) with 83% response rate and 60% teaching award nomination.
- Evaluated ~20 student coding assignments weekly (~100 lines each) without automated tests, requiring deep code comprehension.

### RSAF Chong Pang Medical Centre

*Medical Sergeant cum Logistics-IC*

- Developed an Excel sheet to speed up stocktaking workflow and track indents/expiry dates.
- Created a Telegram bot for patients to find FAQs instead of calling landline.

## PROJECTS

### Notett – NUS Independent Software Development Project (Orbital)

*Full-Stack Academic Support Web App – <https://note-it-drab.vercel.app/>*

May 2024 – Aug 2024

- Co-developed a full-stack app for note-sharing and Q&A forums for NUS students.
- Engineered file upload with Supabase Storage, module-specific forum with tagging, custom PDF viewer with highlighting, and .ics calendar parser.
- Implemented error handling, edge-case checks, and conducted extensive user testing with NUS students.
- Paired programming, Git/GitHub tracking, deployed production build on Vercel.

<b>Task Manager Application</b> <i>JavaFX Chat-Based Task Manager – <a href="https://github.com/gnahuy123/jp">https://github.com/gnahuy123/jp</a></i>	<b>Jan 2024 – Apr 2024</b>
<ul style="list-style-type: none"> <li>Built a comprehensive task-tracking chat app with GUI using JavaFX, with save/load, date/time handling, and search features.</li> <li>Executed advanced Git workflows, CI/CD pipeline, and collaborative development.</li> <li>Applied JUnit testing, CheckStyle, JavaDoc, achieving 95%+ code coverage.</li> <li>Delivered production-ready JAR distributions with Gradle.</li> </ul>	
<b>Mommy.AI – Hack@SMU</b> <i>AI-Powered Productivity App with Personality</i>	<b>Mar 2024</b>
<ul style="list-style-type: none"> <li>Designed and developed a React Native (Expo) app with authentication, task creation, calendar integration.</li> <li>Integrated local LLaMA 3.2 model via Ollama for on-device natural language parsing.</li> <li>Implemented personalised AI-driven notifications with Node.js/Express backend.</li> </ul>	
<b>Database Management for Restaurant – CS2102</b>	<b>Aug 2025 – Nov 2025</b>
<ul style="list-style-type: none"> <li>Designed and implemented a PostgreSQL relational database schema from multiple CSV sources.</li> <li>Developed Python scripts to parse and clean data from 4 CSV files.</li> <li>Wrote and optimized SQL triggers to enforce business logic and data consistency.</li> </ul>	
<b>Driving Slot Booking Bot</b>	<b>Oct 2023</b>
<ul style="list-style-type: none"> <li>Utilised Selenium to create a bot that snatches available booking slots.</li> </ul>	
<b>NBA Dashboard</b>	<b>Dec 2024</b>
<ul style="list-style-type: none"> <li>Created dashboard using StreamLit to visualise team data for future games.</li> <li>Retrieved legacy data from 3rd-party API and scraped future schedules with Beautiful Soup.</li> </ul>	

## ACHIEVEMENTS, LEADERSHIP & COMMITTEE EXPERIENCE

<b>Project Grit – Head Teacher</b>	<b>Jun 2025 – Jul 2025</b>
<ul style="list-style-type: none"> <li>Curated lesson plans and led 12 volunteers to teach Python fundamentals to children (10–12 years).</li> </ul>	
<b>ASRJC Choir – Assistant Student Conductor</b>	<b>Apr 2020 – Apr 2021</b>
<ul style="list-style-type: none"> <li>Directed and conducted a 40-member choir, leading weekly rehearsals and performances.</li> <li>Answered queries during open house, contributing to 12% increase in signups.</li> </ul>	