

# CHEW ZING JEN

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## EDUCATION

### National University of Singapore

Aug 2022 – July 2026

#### Bachelor of Engineering (Hons), *Current GPA: 4.72 / 5.0*

- Biomedical Engineering (Maj), Computer Science (Min), Business Management (Min)
- Coursework (BME): Biochemistry and Biomaterials, Biosignals and Bioinstrumentation, Bioengineering Data Analysis, Biomechanics, User-Centred Collaborative Design
- Coursework (CS): Programming Methodology (Python), Programming Methodology (Java), Data Structures and Algorithms
- Coursework (BIZ): Accounting, Finance, Excel Analytics, Business Analytics with Python

## EXPERIENCE

### Respiree, Software Engineering Intern

Aug 2024 – Dec 2024

- Resolved critical bugs and optimised frontend codebase on the clinician dashboard using React.js, enhancing application performance and overall functionality.
- Designed and developed a disable-user-login feature on the dashboard's frontend to enhance its security infrastructure for clinicians using tools such as Ant Design, Material UI and Axios.
- Wrote and executed Python scripts to pump patient data into AWS DynamoDB tables to assist with performance testing of backend architecture and contribute to efficient database management.
- Coordinated with backend developers to streamline feature integration, ensuring seamless deployment cycles.
- Collaborated on the verification and validation of development tasks, driving discussions to identify improvements and implement effective solutions for system fixes.

### Genome Institute of Singapore, Research Intern

May 2024 - Aug 2024

- Internship under the A\*STAR Research Internship Award.
- Conducted comprehensive data analyses on key breast cancer study cohorts, including BREast screening Tailored for HEr (BREATHE) and The Singapore Breast Cancer Cohort (SGBCC).
- Developed and executed both descriptive and predictive statistical models using R programming, extracting actionable insights from complex datasets ranging from 4,000 to 100,000 samples.
- Led a study on breast cancer screening behaviours and authored a research paper showcasing significant findings.

## AWARDS

- A\*STAR Research Internship Award (2024)
- EAGLES Leadership Award (2017) - top 10% in cohort demonstrating leadership qualities, service to community and schools, excellence in non-academic activities, and good conduct.
- Honours Day Full Colours Award (2014, 2015, 2016, 2017) - in recognition of achievement in the ACS(BR) handball team.
- Edusave Top 25% Academic Award (2014, 2015)

## SKILLS

- **Languages:** English (Native), Chinese (Native)
- **Programming Languages:** JavaScript, Python, R, SQL
- **Developer Tools:** React.js, TailwindCSS, Git, GitHub, Node.js
- **Other Software:** Excel, MATLAB, SOLIDWORKS

## **EXTRA CURRICULAR ACTIVITIES**

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### **Positions Held**

- TeamNUS Varsity Handball Team | Member (2022-Present)
- Temasek Hall NUS Handball Team | Captain (2023-2024), Member (2022-2024)
- TemasekGreen Committee, Temasek Hall NUS | Member (2022-2024)
- Sports Management Board, Temasek Hall NUS | Team Manager for Temasek Hall NUS Badminton Team (2022-2023)
- Anglo-Chinese Junior College Basketball Team | Member (2018-2019)
- Anglo-Chinese School (Barker Road) Handball Team | Member (2014-2017)

### **Achievements**

- Singapore University Games (SUniG), NUS Handball Men – Champions (2024)
- NUS Inter-Hall Games (IHG), Temasek Hall Handball Men – 1<sup>st</sup> Runner Up (2024), Champions (2023)
- Singapore University Games (SUniG), NUS Handball Men – 2<sup>nd</sup> Runner Up (2022)
- Handball B Division – Champions (2016, 2017)
- Handball C Division – 1<sup>st</sup> Runner Up (2015), Handball C Division – Champions (2014)