

# CHEW ZING JEN

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## EDUCATION

- National University of Singapore, Bachelor of Engineering (Hons) - GPA 4.71 / 5.00** **Aug 2022 - Jul 2026**
- Biomedical Engineering (MAJ), Computer Science (MIN), Business Management (MIN)
- Delft University of Technology (TU Delft), Computer Science (Exchange)** **Feb 2025 - Jul 2025**
- Course work: Algorithms and Data Structures (Java), Software Quality and Testing (JUnit), Functional Programming (Haskell, Agda), Business Analytics (R), Biomechanics

## WORK EXPERIENCE

- NHG Health, Software Engineer Intern (Full-Stack)** **July 2025 – December 2025**
- Currently contributing to the AI-Enabled Education (AINE) project, which aims to transform healthcare training using intelligent, agent-based systems.
  - Involved in the early-stage development of full-stack solutions that empower educators with interactive, AI-powered tools tailored to medical learning contexts.
  - Collaborating with engineering and domain experts to design scalable systems that align with clinical education needs.
- Respiree, Software Engineer Intern (Frontend)** **August 2024 – December 2024**
- Resolved critical bugs and optimised frontend codebase on clinician dashboard using React.js, enhancing application performance and overall functionality.
  - Designed and developed a disable-user-login feature on 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, Data Analytics Intern** **May 2024 – August 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.

## PROJECTS

- Hypercharged.CC [ [View Website](#) ]** **December 2024 – Present**
- Developed and deployed a dynamic full-stack web application that delivers accurate, near real-time competitive statistics for dedicated players of Brawl Stars – a mobile game developed by Supercell – by integrating the official Brawl Stars API and Brawlify API as primary data sources.
  - Collaborated with backend team to implement hourly batch processing to query MongoDB, calculate match statistics, and store results for up-to-date data insights and further analysis.
  - Built with React.js, FastAPI, and MongoDB
  - Containerised application with Docker and deployed on an AWS EC2 instance for scalability and portability.
- WriteNow [ [View Source Code](#) ]** **January 2025**
- WriteNow is a digital PA web app that streamlines admin workflows – organising tasks, auto-scheduling meetings, generating AI meeting minutes, and turning email summaries into actionable tasks.

## SKILLS

- Programming Languages: JavaScript, Java, Python, SQL, Haskell, Agda, R
- Developer Tech Stack: Next.js, React.js, TailwindCSS, Node.js, Express.js, Git, HTML, CSS

## AWARDS

- NUS Awards for Study Abroad (NASA Exchange Scholarship)
- A\*STAR Research Internship Award (2024)

## EXTRA CURRICULAR ACTIVITIES

### Positions Held

- TeamNUS Varsity Handball Team | Member (2022-Present)
- Temasek Hall NUS Handball Team | Vice Captain (2025-2026), Captain (2023-2024), Member (2022-2023)

### Achievements

- Singapore University Games (SUniG), NUS Handball Men - Champions (2024), 2<sup>nd</sup> Runner Up (2022)
- NUS Inter-Hall Games (IHG), Temasek Hall Handball Men - 1<sup>st</sup> Runner Up (2024), Champions (2023)