

# Chang Si Kai

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[GitHub](#) · [LinkedIn](#) · [Personal website](#)

## EDUCATION

**National University of Singapore, Singapore, Penultimate year undergraduate**

**Aug 2021 – May 2025**

- Bachelor of Computing in Computer Science (Honors), *Graduating in May 2025*
- Grade Point Average (GPA): 4.61/5.00 (Highest Distinction)

**The Chinese University of Hong Kong, Hong Kong, Exchange semester**

**Jan 2024 – May 2024**

## LANGUAGE and SKILLS

**Languages:** Java · Python · JavaScript · HTML · CSS · SQL · C · Shell · Markdown

**Libraries and Tools:** Spring · React · Flask · Express · Git · Bootstrap · AWS

## EXPERIENCE

**JPMorganChase, Summer Analyst under Software Engineer Program**

**May 2024 – Present**

- Drive the development of a comprehensive internal monitoring application for large-scale distributed services, enabling seamless visualization and tracking of service statuses across multiple environments.
- Resolve bugs in a cloud-based payment processing engine built on micro-service architecture.

**Factorem, Full Stack Developer Intern**

**Aug 2023 – Dec 2023**

- Greatly improved the reliability and performance of an extractor tool by implementing parallel processing and resiliency principles, achieving near 100% success rate, and reducing extraction time by 50%.
- Led the development of a new client-facing feature, collaborating with other teams to establish a robust foundation, ensuring ease of future development and integration.
- Conceptualized and developed a guided tour feature, boosting new customer retention rates through an improved onboarding experience.

**Shanghai Pudong Development Bank, Artificial Intelligence Intern**

**May 2023 – Aug 2023**

- Increased overall quality score of synthetic data generated through research and finetuning of models and hyperparameters from a baseline score of 64% to 88%.

**National University of Singapore, Undergraduate Teaching Assistant**

**Jan 2023 – Present**

- Modules taught: CS2030S (Programming Methodology II), CS2103T (Software Engineering)
- Obtained average feedback score of 4.5/5.0, greater than the average of 4.2/5.0 in the school.
- Made the [Honours List of Student Tutors for AY2022/23](#).

## PROJECTS and OPEN SOURCE

**RepoSense** ([GitHub](#)): NUS-OSS project, Open-source contribution analysis tool for Git repositories, Core developer team

- Notable PRs and Issues: [#1857](#), [#1875](#), [#1900](#), [#1961](#)

**singaScript** ([Link](#)) ([GitHub](#)): Singlish-flavored Esolang and gamified development environment

- Implemented asynchronous programming on APIs, improving scalability.
- Worked closely in a team of 3, learning unfamiliar languages and frameworks under time pressure.

**MyInsuRec** ([GitHub](#)) ([Contributions](#)): Scheduling and organizing solutions for insurance agents

- Led team meetings for discussions, set agendas and deadlines, resulting in all deliverables completed on time for each iteration with little/minor bugs.
- Led efforts for comprehensible documentation for both users and future developers.
- Advocated for more and sensible unit testing, resulting in less bugs overall and increased code coverage score.

## AWARDS

**singaScript** ([Link](#)) ([GitHub](#)) ([Devpost](#)): HackNRoll 2023 – Most Beautiful Hack

**Jan. 2023**