Ryan Chen Rui Yang

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Working Experience

Cloud Engineer Intern – xCloud, Home Team Science and Technology Agency (HTX)   **May 2025 - Aug 2025**
- Engineered and deployed automated workflows using Microsoft Power Platform and Workato, integrating cloud services and internal systems to enhance data management and improve operational efficiency.
- Deployed an end-to-end automated solution for tracking external contractor leave by connecting a SharePoint data source with an external API, reducing time spent on data syncing and email tracking across departments.

Education

National University of Singapore   **Aug 2023 - May 2027**
Bachelor of Computing (Hons.) Computer Science
- Relevant modules: Data Structures and Algorithms (CS2040C), Programming Methodology (CS2030S), Computer Networks (CS2105), Software Engineering (CS2103T), Wireless Networking (CS4222)
- AY24/25 NUS Raffles Hall Executive Committee
- GPA: 4.50, First Class Honours

Tampines Meridian Junior College   **Feb 2019 - Oct 2020**
GCE 'A' Level Certificate
- H1 General Paper, H2 Mathematics, H2 Chemistry, H2 Biology, H1 Project Work, H1 Chinese Language

About Me

I'm currently a Computer Science undergraduate studying at the National University of Singapore (NUS), with a passion for exploring the field of Machine Learning and Artificial Intelligence (AI). With an aspiration to become a skilled software developer, I have fundamental knowledge in Python, Java, and C++. I also possess great communication skills which allow me to seamlessly interact with many individuals from all walks of life. From time to time, I like to brainstorm original project ideas and note down things that could prove useful in the future.

Projects

TutorRec, Team Lead   **Feb 2025**
- Developed a desktop application to help private tutors manage their students efficiently, using a command line interface and a GUI.
- Worked with a team of 4 to streamline task distribution, successfully implementing new application features, and achieving over 96% code coverage through comprehensive test case development.
- Actively drove team progress and exceeded objectives by proactively addressing key initiatives.

LifeHack, Team Member   **May 2024**
- Developed a set of Python functions to simulate Encrypted Media Extensions (EMEs) for managing the playback of encrypted digital content, integrating with Data Rights Management systems for enhanced content security.
- Collaborated within a team of 4 to facilitate knowledge sharing, and instructed team members on effectively utilising GitHub features for streamlined collaboration and version control.

RHDevs Inter-hall Hackathon, Team Co-lead   **Dec 2023**
- Developed and deployed a custom Telegram bot that was meant to enhance the room bidding process in residential halls, improving accessibility for remote residents and streamlining the overall experience.
- Led a team of 3 to clinch the award for 'Most Technical Hack', showcasing our ability to develop and implement a sophisticated project within a 24-hour time frame.

Certifications

- CS50's Introduction to Artificial Intelligence with Python
- CS50's Introduction to Databases with SQL
- SCS-AWS GenAI (Foundational) Programme
- Workato Automation Pro I & II

Technical Skills

- Programming & Database Languages: Python, C++, Java
- Programming Tools: GitHub CI/CD, PyCharm, Visual Studio Code, Radiant, JavaFX, Gradle, CodeCov