

# Kyrene Chua

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## WORK AUTHORISATION

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Singapore Citizen; eligible for H-1B1 and J-1 US visas, and an HPI UK visa, with no petition required

## EDUCATION

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**National University of Singapore** Aug 2021 - May 2025 (Expected)

*Bachelor of Engineering in Computer Engineering, Honours* Singapore

- Expected honours class: First Class
- Under the Engineering Scholarship Program
- Notable Coursework: CS2040C Data Structures and Algorithms in C++, CS2113 Software Engineering and Object-Oriented Programming, CS3244 Machine Learning, CS2102 Database Systems

## WORK EXPERIENCE

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**Application Development Intern** May 2023 – Nov 2023

*Defence Science and Technology Agency (Information Program Centre)* Singapore

- Constructed various components of a robust data analytics system using Python, Numpy, and Panda libraries, encompassing data collection, database storage, and knowledge representation, which was used by the department to analyse company data
- Integrated advanced machine learning and artificial intelligence modules to enhance data analytics capabilities, to boost efficiency of the system and quality of analytics
- Developed a Question-Answer system using Generative AI, LLMs and Prompt Engineering concepts, decreasing the time taken to sieve through company data to find information

**STEM (Coding) Undergraduate Intern** May 2022 - Aug 2022

*OCBC Bank (Global Legal and Compliance)* Singapore

- Programmed a software for data entry automation which helped to reduce human error and time taken by almost 80%, using Visual Basic for Applications (VBA) Language
- Developed Excel Macros for data analysis and presentation for the Bank's yearly analysis of risk management data, which boasts efficient and accurate data collection and dashboard creation by using VBA
- Engineered a data migration and presentation system for the department using VBA, increasing the speed and accuracy of the data updates and charts creation by about 90%, hence assisting the department in their monthly meetings regarding the analysis of the Bank's data

**NUS Engineering Outreach Program Teaching Assistant** Mar 2022 - May 2022

*NUS Faculty of Engineering* Singapore

- Mentored in the teaching of the basics of the Arduino to 30 college students in Hwa Chong Institution by providing assistance as well as knowledge so that participants are able to build their own robot cars with the Arduino
- Worked in a team with a fellow course mate under 2 NUS Professors to teach participants
- Highly successful mentorship as measured by the 100% completion rate of participants

## TECHNICAL COMPETENCIES AND CERTIFICATIONS

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**Languages:** C++/C, Python, Java, SQL, HTML, CSS

**Developer Tools:** Git, Docker

**Libraries:** NumPy, Pandas, Matplotlib, SciPy

**Certifications:** DeepLearning.AI Generative AI for LLM, MITx.6.81x Machine Learning with Python