

CHENG PEI YEE, MELISSA

+65 8420 6794 • peiye88@u.nus.edu • [Github](#) • [LinkedIn](#) • [Portfolio](#)

EDUCATION

National University of Singapore (NUS)

- Bachelor of Computing (Computer Science), Honours
- Focus Area: Software Engineering, Artificial Intelligence and Machine Learning, Networking and Distributed Systems

Aug 20 – May 24
[Expected]

TECHNICAL SKILLS

- **Programming Language:** Python, JavaScript, Java, C++, HTML+CSS
- **Frameworks and Tools:** React, Next.js, Django, NumPy/Scikit, PyTorch
- **Databases:** PostgreSQL, MongoDB
- **Other Technologies:** Kubernetes, Terraform, Docker, AWS

WORK EXPERIENCE

Autodesk, DevOps Engineer Intern (Team AutoCAD)

Jan 23 – Jun 23

- Developed automation scripts in Python for efficient data scraping and conducted in-depth data analysis to discern deployment statistics.
- Leveraged ETL scripts to facilitate data migration and synchronization between MongoDB and Elastic Search and integrated with Grafana for data visualization, significantly enhancing project workflows.
- Streamlined the onboarding process for teams within the AEC Division, while conducted regular sharings to generate interest from additional teams.

PROJECTS

PennyWise, Full Stack Developer

Jan 24 – Present

- Individual project on a desktop expense tracker application that enables users to monitor daily expenditures in alignment with their budget.
- Tech Stack: Django, Materialize CSS, MySQL

Code Guardian, Software Developer (Query Processing System)

Aug 23 – Nov 23

- Collaborated with 4 team members to design and develop a static program analyser that allows users to examine source code at compile level.

BnB Guru, Researcher

Mar 22 – May 22

- An ML Project aimed to forecast AirBnB rental prices based on factors like ratings and locations, providing landlords with optimal pricing suggestions.
- Skills: NumPy, scikit, Decision Forests, Neural Networks

CO-CURRICULAR ACTIVITIES

NUS Cycling, Vice President

Aug 22 – Aug 23

- Coordinated diverse departments to ensure seamless club operations and acted as a liaison with the student advisors and third-party vendors.

ADDITIONAL INFORMATION

- Fluent in English (IELTS 7.5) and Chinese (HSK Level 6)