CHENG PEI YEE, MELISSA

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EDUCATION

National University of Singapore (NUS)   **Aug 20 – May 24**
- Bachelor of Computing (Computer Science), Honours   **[Expected]**
- Focus Area: Software Engineering, AI/ML, Networking and Distributed Systems

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 from Jenkins and conducted in-depth data analysis to discern deployment statistics.
- Designed and implemented MongoDB and Elasticearch databases, aligning with application requirements through collaboration with stakeholders.
- Leveraged ETL scripts to facilitate data migration and synchronization between databases 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.
- Skills: Software Design Patterns, Software Testing (Catch2), C++

checkUp, *Backend Developer*   **Sept 22 – Nov 22**
- An advanced database management system tailored for medical institutions to effectively maintain and monitor comprehensive patient information.
- Tech Stack: Java, JUnit, Gradle

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)