

Filbert Phang

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WORK AUTHORIZATION

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

EDUCATION

National University of Singapore Aug 2021 – May 2025 (Expected)
Bachelor of Computing in Computer Science, Honours Singapore

- Current GPA: 5.00/5.00 (Highest Distinction)
- NUS Merit Scholarship Recipient
- Dean's List recipient in 3 out of 4 Completed Semesters (AY2122S1, AY2122S2, AY2223S2)
- MAS Academic Excellence Award recipient (awarded to best-performing Year 2 student in Computer Science or Computer Engineering)

EXPERIENCE

Software Engineering Intern (Full-Stack) Jun 2023 – Aug 2023
Venti Technologies Singapore

- Served as the main developer (full-stack) for an internal data mart service to consolidate data and facilitate the bug triaging process for vehicle autonomy developers
- Created data pipelines to process and index raw parquet data using PySpark and Apache Airflow
- Designed backend APIs using FastAPI and SQLAlchemy to support new data models
- Implemented frontend features using React.js and Next.js to serve aggregated data to users
- Managed image build and deployment of service on production Kubernetes cluster

Undergraduate Teaching Assistant Jan 2023 – May 2023
National University of Singapore Singapore

- 1 of 49 Undergraduate Teaching Assistants for CS2040S Data Structures and Algorithms
- Prepared teaching materials and delivered weekly tutorial lessons to a class of 15
- Graded students' programming assignments and provided meaningful feedback
- Received 4.9/5 teacher rating and positive reviews from students (Department average: 4.2/5)

Data Engineering Intern May 2022 – Jul 2022
Resync Technologies Singapore

- Analysed weather forecasting models and improved accuracy and efficiency through refactoring
- Migrated forecasting pipelines from serverless (Google Cloud Functions) to Apache Airflow and Celery
- Deployed pipelines on Google Compute Engine and Google Kubernetes Engine

Data Engineering Intern Apr 2021 – Jul 2021
Ministry of Manpower Singapore

- Attached to Ministry of Manpower's Co-Lab as an intern under GovTech
- Processed and extracted data from raw SQL schemas using regex
- Queried and consolidated data across multiple databases using SQL and Power Query
- Initiated automation of data extraction processes using Python and PowerShell scripts

Software Engineering Intern (Android) Feb 2021 – Apr 2021
Defence Science and Technology Agency Singapore

- Developed an Android app in Java for the Singapore Armed Forces (SAF) using AGILE processes
- Designed mockups in Adobe XD, incorporating user feedback for iterative improvements
- Presented the product at an Army formation-level discussion group

TECHNICAL SKILLS

Languages: Python, Java, JavaScript / TypeScript, C/C++, SQL (Postgres), Shell Scripting, Regex, HTML, CSS
Frameworks: React, Next.js, FastAPI, Android Studio, Ant Design
Developer Tools: Git, Docker, Kubernetes, Google Cloud / AWS, Apache Airflow, GitLab CICD / GitHub Actions
Libraries: NumPy, Pandas, Matplotlib, Seaborn, SciPy