FILBERT PHANG

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EDUCATION

National University of Singapore (NUS)　　　　　　　　　　　Aug 21 – May 25
- Bachelor of Computing (Computer Science), Honours　　　　　　[Expected]
- 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)

TECHNICAL SKILLS

- Programming Languages: Python, Java, JavaScript / TypeScript, C/C++, SQL, Shell Scripting, Regex, HTML, CSS, Rust
- Software Frameworks: React, Next.js, FastAPI, Android Studio, Numpy, Pandas, Scipy, TensorFlow Keras
- Deployment Tools: Git, Docker, Kubernetes, Google Cloud / AWS, Apache Airflow, GitLab CICD / GitHub Actions

INTERNSHIP & TEACHING EXPERIENCE

Venti Technologies (Singapore), *Software Engineering Intern*　　　Jun 23 – Aug 23
- 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

National University of Singapore (Singapore), *Undergraduate Teaching Assistant*　　Jan 23 – May 23
- 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)

Resync Technologies (Singapore), *Data Engineering Intern*　　　May 22 – Jul 22
- 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

Ministry of Manpower Co-Lab (Singapore), *Database Intern*　　　Apr 21 – Jul 21
- 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

Defence Science and Technology Agency (Singapore), *Intern*　　　Feb 21 – Apr 21
- 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

LEADERSHIP

Residential College 4 Arts Night 2023: Troublemakers, *Publicity Co-head*　　Sep 22 – Mar 23
- Co-directed publicity for a live production reaching a crowd of over 600 people
- Led a committee of 11 people split across Design, Photography and Video, and Social Media teams to plan and provide event publicity coverage
- Coordinated and planned weekly photoshoots and social media posts to promote merchandise and ticket sales, exceeding 50% of targeted sales 2 weeks prior to the event

Residential College 4 Noctua House Committee, *Publicity Director*　　　Aug 22 – May 23
- Managed a team of 12 to plan and facilitate 6 publicity initiatives throughout the year
- Oversaw the design of house merchandise such as 2 t-shirts and a lanyard, reaching over 200 orders
- Edited promotional videos with Adobe Premiere Pro to engage residents and boost morale

Singapore Armed Forces, *Detachment 2IC*　　　　　　　　　　Dec 19 – Apr 21
- NSF of the Year 2021 recipient (awarded to the top 60 of 15000 Full-Time National Servicemen)