

Jitpanoo Polawath

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EDUCATION

University of Victoria

Bachelor of Science in Computer Science (3th/4th Year)

Sept 2022 – Present

Relevant Coursework: Computer Architecture, Computer Networking, Data Structures & Algorithms, Database Systems, System integration, Data mining, System scalability

TECHNICAL SKILLS

Languages: Python, Golang, C++, C, SQL, JavaScript, HTML, CSS, Java

Frameworks & Libraries: Apache airflow, dbt, Snowflake, Django, ReactJS, Dash, Flask, Scikit-learn, NumPy, Pandas, Pytest

Technologies: AWS, GCP, Git, Linux, PostgreSQL, Selenium, Docker, Grafana, Tableau, MS Office, Google Suite, LLM, GenAI

EXPERIENCE & LEADERSHIP

Business Intelligence Developer Intern

August 2025 – November 2025

Agoda Service co. LTD

Bangkok, Thailand

- Optimized ETL pipeline performance by rewriting regex patterns and **SQL** queries, reducing query execution time by 51% and implemented automated data testing framework to validate data source accuracy.
- Developed **Grafana** and **Tableau** dashboards with direct SQL database connections to monitor 100+ daily users across multiple SQL engines, utilizing window-functions and joins to gather data from myulitple sources.
- Refactored Python codebase using dictionary-based data structures, reducing code complexity by 100 lines while maintaining functionality through **Git** branching workflow and QA review process
- Developed comprehensive testing suite using **Pytest** and **Selenium**, implementing unit, integration, and end-to-end tests that increased function coverage by 100% and validated correctness before production releases

Global Community Volunteer

January 2023 – Present

University of Victoria

- Led team of 10+ international students (exchange, graduate, and undergraduate) through multiple collaborative events, fostering engagement and building inclusive team culture that increased volunteer retention for later activities
- Independently executed assigned responsibilities including venue preparation and equipment management, demonstrating self-direction, accountability, and ability to work autonomously toward project goals

PROJECTS

Mobi-roger-Dashboard | Apache Airflow, dbt, Snowflake, Postgres, Python, Docker

February 2026 - Present

- Designed an ETL pipeline using **Apache Airflow**'s taskflow and scheduler for up-to-date artificial real-time bike-sharing data processing
- Developed schema and database on **Snowflake** and **Postgres** for local and production development. Utilize Snowflake for faster analytical processing compared to Postgres by over 25%
- Implemented **dbt** cli to perform data transformation for the ETL pipeline; used docker to deploy the airflow's scheduler, UI, and database

AmbiBook | ReactJS, Golang, PostgreSQL, HTML, CSS, GCP

December 2025

- Built a full-stack social media platform for book enthusiasts using **ReactJS** frontend and **Golang** RESTful API backend with **PostgreSQL** database, deployed on **Google Cloud Platform**
- Designed and developed **Docker containers** containing RESTful API endpoints for seamless client-server communication, enabling efficient data retrieval and updates across the application

Microbusiness Density Predictor | Scikit-learn, Python, Pandas, NumPy

January 2024

- Built a machine learning model using **Scikit-learn**'s MLP algorithm to predict regional microbusiness growth trends with 89% accuracy
- Engineered data preprocessing pipelines with **Pandas** and **NumPy** to handle missing values and outliers, improving prediction reliability across diverse datasets

Vision model creator website | Python, Flask, ReactJS, SQLite, Selenium, AWS

December 2023

- Developed a web application using **Flask**, **ReactJS**, and **SQLite**, to enable users to build and deploy custom computer vision model
- Engineered end-to-end test cases using **Selenium** for website functionality, improving the sign-up success-rate by 100%