

KAY EUGENIA PURNAMA

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EDUCATION

National University of Singapore (NUS)

Aug 2022 - May 2026

Bachelor of Science in Business Analytics, Second Major in Statistics

- Cumulative GPA: 4.88/5.0; Projected First Class Honours (FCH)
- Relevant Coursework: Programming Methodology in Python and Java, Data Analytics and Visualisation in R, Data Management and Visualisation with Tableau, Data Structures and Algorithms, Calculus, Linear Algebra, Statistics, Independent Software Development

Anglo-Chinese Junior College (ACJC)

Jan 2020 - Dec 2021

Singapore-Cambridge GCE A-Level; 7 Distinctions; 90/90 Rank Point

AWARDS AND SCHOLARSHIP

- ASEAN Undergraduate Merit Scholarship (2022 - Present)
- School of Computing Dean's List Award (top 5%) (2022/Year 1 Semester 1, 2023/ Year 2 Semester 1)
- Top Student for BT2102 (Data Management and Visualisation) (2023)

WORK EXPERIENCE

Software Engineer Intern

Dec 2023 - Present

Hellmann Worldwide Logistics

- Developed a responsive full-stack web application using ASP.Net (C#), HTML, CSS and Snowflake with Excel data parsing feature to enhance Shipment data imports and integrated CRUD functionalities for data manipulation
- Engineered an Auto-Rating feature for shipment rate cards to improve the efficiency of rate calculations
- Addressed challenges related to concurrent user interactions by implementing multi-user layouts and version control

Technology Associate at Google Developer Student Clubs NUS (GDSC NUS)

Sept 2023 - Present

- Improving the DSC NUS and event websites using React, TypeScript, Tailwind, and NextJS
- Leading various technical workshops including Speech-to-Text bot and Introduction to React web-application

Undergraduate Teaching Assistant (CS2030)

Aug 2023 - Present

NUS Computing

- Teaching lab sessions on advanced programming methodology and object-oriented programming in Java
- Received an impressive average teaching score of 4.6/5.0 and guided all 18 students to a 100% A grade attainment in their final lab projects

Project-Based Intern: Mobile Application Developer

July 2023

PT Bank Mandiri (Persero)

- Developed an Android news application by fetching and integrating data from RESTful APIs for real-time news updates using Kotlin

PROJECT AND COMPETITION EXPERIENCE

National Champion, Project SlumDunk for ASEAN Data Science Explorers Competition 2023

- Conducted data exploration and analysis, as well as created data visualizations to gain insights into the prevalence of slums in ASEAN region using SAP Analytics Cloud, SQL, and Tableau
- Devised a solution that involves the creation of a website aimed at monitoring slum areas using satellite imaging and IOT sensors, as well as connecting volunteers with these communities
- Emerged as a National Champion and 2nd Runner Up in the Regional Finals

First Prize Winner, Tiktok Ads Moderation with ML and Gurobi (github.com/kayeugenia/tiktok-ads-model)

- Created optimization models with Gurobi in Python to solve the issue of ad moderation on the TikTok platform
- Incorporated CLIP model to detect violations from videos and a bi-encoder to categorize ads
- Developed a full-stack website that takes in a video advertisement, calculates its score, and assigns priority
- Awarded Overall 1st out of over 100 teams that participated

cineMOOD: Movie Recommendation Web App (github.com/kayeugenia/orbital-cinemood)

- Developed a full-stack web application using ReactJS, Flask, Sentence-BERT model to provide movie recommendations using semantic search and content-based filtering
- Fetching and integrating data from TMDB API for movie catalog, implementing CRUD features, and incorporating social media functionalities including friend request system
- Achieved highest level of achievement (Artemis), awarded to the top 5%

LEADERSHIP EXPERIENCE

- Finance Head, Computing Club FLAG Subcommittee
- House Committee in Tembusu Residential College

SKILLS AND ADDITIONAL INFORMATION

- **Programming Languages:** Python, Java, JavaScript, TypeScript, R, SQL, Kotlin, C#
- **Design and Front-End:** ReactJS, NextJS, Blazor, HTML, CSS, Figma, Canva
- **Back-End Web Development:** ASP.NET MVC, Flask
- **Cloud and Database Systems:** MySQL, PostgreSQL, Supabase, Snowflake, Git
- Fluent in written and conversational English, Bahasa Indonesia, and Malay