KAY EUGENIA PURNAMA

kayeugenia.purnama@gmail.com | 84511157 | github.com/kayeugenia | linkedin.com/in/kay-eugenia-purnama/

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)
- Top Student for BT2102 (Data Management and Visualisation) (2023)
- School of Computing Dean's List Award (top 5%) (2022)

WORK EXPERIENCE

Software Engineer Intern   *Dec 2023 - Present*
Hellmann Worldwide Logistics
- Developed a full-stack web application using ASP.Net (C#), HTML, CSS and Snowflake
- Implemented Excel data parsing feature and integrated CRUD functionalities

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
- Planning to introduce Generative AI powered elements or ML-driven solutions in existing products
- Preparing and leading various technical workshops

Undergraduate Teaching Assistant (CS2030)   *Aug 2023 - Present*
NUS Computing
- Teaching lab sessions on advanced programming methodology and object-oriented programming in Java

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/poon-zx/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 and ad fields for demonstration

Awarded Overall 1st out of over 100 teams that participated

cineMOOD: Movie Recommendation Web App (github.com/poon-zx/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 and implementing CRUD features
- 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, R, SQL, Kotlin, C#
- **Cloud and Database Systems:** MySQL, PostgreSQL, Git
- **Data Analysis and Visualization:** SAP Analytics Cloud, Tableau
- **Design and Front-End:** ReactJS, NextJS, HTML, CSS, ASP.Net, Figma, Canva
- **Back-End Web Development**: Flask, Node.js
- Fluent in written and conversational English, Bahasa Indonesia, and Malay