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## EDUCATION

**Nanyang Technological University, Singapore**

Aug 2023 - May 2027

**Bachelor of Computing, Data Science and Artificial Intelligence, 4.21 GPA**

- College of Computing and Data Science (CCDS) Student Ambassador, 2024 - Present
- Open House Student Ambassador, 2024
- School Scholarship, 2023 – Present

**Singapore Polytechnic, Singapore**

Apr 2018 - May 2021

**Diploma in Bioengineering, 3.92 GPA**

- Diploma with Merit, 2021
- Recipient of MAE Final Year Project Exhibition Gold Medal, 2021
- Recipient of SP Engineering Show Winner Award, 2021
- Director's Honour Roll, AY 2019/2020
- Director's Honour Roll, AY 2018/2019

## PROJECT WORK

**Nanyang Technological University, Singapore**

*Software Engineering – Food Content Social Media Website*

Aug 2024 - Dec 2024

Designed and developed a social media platform for food enthusiasts to share culinary recipes, explore food recipes, discover new dishes, and track their caloric intake. The platform enabled dynamic user interactions, including liking, commenting, and reporting recipes.

- Applied MVC design architecture and SOLID principles to develop a scalable and maintainable codebase
- Developed web application using Node.js, integrating HTML, CSS and JavaScript
- Contributed to both front-end and back-end development, ensuring a responsive and user-friendly interface
- Delivered a comprehensive Software Requirements Specification (SRS)
- Collaborated with a team of 6 and achieved an A- grade for the course

*Object-Oriented Design & Programming – Food Ordering Management System*

Jan 2024 - May 2024

Designed and developed a food ordering application to streamline the process of ordering, payment, and order management for both customers and staff in fast food restaurants. The application was developed using Java with emphasis on Object-Oriented Programming (OOP) principles.

- Implemented core OOP concepts to ensure a modular codebase
- Designed UML class diagrams using visual modeling tools to structure the system architecture
- Conducted unit testing to validate functionality and ensure system reliability
- Collaborated with a team of 5 and achieved an A grade for the course

*Introduction to Data Science & Artificial Intelligence – Data Analysis and Machine Learning*

Jan 2024 - May 2024

Developed a predictive model to determine the likelihood of a hotel guest showing up based on historical booking data. The project involved data preprocessing, exploratory data analysis (EDA), and machine learning model training to identify key factors influencing guest attendance.

- Performed EDA to identify correlations and determine key features impacting guest attendance
- Trained and fine-tuned machine learning models, including Logistic Regression, Decision Tree, Random Forest, and Recurrent Neural Networks
- Assessed model performance using accuracy, precision, and recall metrics to ensure reliability
- Collaborated with a team of 3 and achieved an A grade for the course

## WORK EXPERIENCE

**AI Singapore**

May 2024 - Aug 2024

**AI Engineer, Intern**

- Collaborated with a team of 6 to improve the accuracy and factuality of a Large Language Model (LLM)
- Developed and integrated citation features to ensure LLM-generated outputs were verifiable and aligned with source references
- Applied software engineering best practices, including version control, code reviews, and unit testing, to maintain a robust and scalable codebase
- Participated in agile methodologies, including sprint planning, sprint reviews, daily stand-ups, and retrospectives, to ensure project milestones were met

## CO-CURRICULAR ACTIVITIES

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### NTU Welfare Services Club, Ignite Change Sep 2024 - Present

#### Chairperson

- Spearheaded one of NTU's Big 4 Freshmen Orientation Programme, guiding over 200 NTU freshmen in their transition to university
- Led a team of 13 executive committee members and oversaw a club of 80 members, organising volunteering and bonding events throughout the academic year to enhance club cohesion
- Promoted the spirit of volunteerism while fostering a fun and engaging club environment

### NTU Welfare Services Club, Volunteer Movement Sep 2024 - Present

#### Regular Volunteer

- Committed to monthly volunteering with various beneficiaries and service users, ranging from children to the elderly

### NTU CCDS Transitional Orientation Programme Sep 2023 - Aug 2024

#### Chief Group Leader

- Led a team of 10 group leaders, ensuring the well-being of approximately 70 CCDS freshmen
- Provided mentorship and academic support, addressing concerns and guiding freshmen through their transition

### SP Outstanding Talent Programme Apr 2019 - May 2021

#### Member

- Awarded Certificate of Achievement (Outstanding) for exceptional completion of the programme
- Engaged in leadership and personal development workshops, designed to nurture top 10 percent of SP students

### SP Karate Club Apr 2018 - May 2021

#### Executive Committee Member

- Managed club finances, overseeing budgeting and expense tracking to support club activities
- Demonstrated discipline and sportsmanship through active participation in karate trainings and competitions

## TECHNICAL SKILLS

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- **Data Analysis:** Proficient in EDA, Statistical Modeling, and Machine Learning using Jupyter Notebook
  - **Generative AI:** Experience with LLMs, Prompt Engineering, and Retrieval-Augmented Generation
  - **Web Development:** Experienced in front-end and back-end development using HTML, CSS, JavaScript, and React
  - **Programming:** Strong foundation in OOP with proficiency in Python and C Programming Languages
  - **Version Control:** Experienced with Git, GitHub and GitLab for collaborative code development