Brendon Tan | Mobile No.: (+65) 9662 5038 | Email: brendontan003@gmail.com

EDUCATION

Nanyang Technological University, Singapore

- Pursuing a Bachelor of Engineering in Computer Science, anticipating graduation with Honours (Distinction) with a CGPA of 4.32/5.00, showcasing exceptional academic excellence
- Developed proficient skills in Python programming language through coursework and projects, with a solid foundation in data engineering principles
- Familiarity with database technologies and data analytics, refining skills in data processing, data science, and software development

ACADEMIC PROJECTS

AI Chatbot Development for Efficient Data Processing

- Developed an AI chatbot utilizing Talend's data manipulation capabilities to streamline FAQs about Nanyang Technological University, achieving a remarkable 90% response accuracy with automated data processing and quality control.
- Optimized performance and enhanced response accuracy by integrating OpenAI's embedding model, Google Cloud's Vertex AI, and ChromaDB, showcasing expertise in scalability, data pipeline development, and applied data engineering principles.
- Demonstrated data engineering expertise by designing and developing efficient ETL workflows for high-quality data processing and effective database design for both relational and NoSQL databases, ensuring seamless data integration and streamlined data management.

INTERN EXPERIENCE

Data Engineer Intern at DBS Bank Ltd

- Designed and developed a scalable data pipeline using Apache Spark, Python, and Python libraries, processing and integrating data from multiple sources with high data quality and integrity, showcasing expertise in data processing and integration.
- Collaborated with stakeholders to understand data requirements, ensuring timely and effective data delivery through optimized workflows, demonstrating strong communication and project management skills.
- Developed and maintained ETL workflows and data pipelines, utilizing Talend, demonstrating proficiency in the technology and ability to apply it in a real-world setting.

Software Engineer Intern at FoodLine.sg Pte Ltd

- Integrated Zoho CRM with a full-stack web application to enhance customer-facing processes and lead management with increased efficiency and responsiveness, showcasing expertise in web development and integration.
- Designed and implemented secure database schemas in MySQL, leveraging prepared statements and data sanitization for robust data protection, demonstrating knowledge of database security and best practices.
- Ensured responsive backend functionalities using PHP and JavaScript for server-side scripting, resulting in improved overall application performance, highlighting attention to detail and ability to optimize code.

Software Engineer Intern at Undercurrent Capital Pte Ltd

- Developed front-end interfaces for Decentralized Applications (DApps) using React and Tailwind CSS, delivering a modern and user-friendly interface, demonstrating proficiency in front-end development and design principles.
- Composed highly efficient and secure smart contracts using Pyteal and JavaScript for various DApps features, ensuring robust and reliable functionality, showcasing expertise in smart contract development and blockchain technologies.
- Auhtored comprehensive test cases using Mocha Testing Framework and conducted end-to-end testing for successful deployment, ensuring defect-free deployment, highlighting attention to detail and commitment to quality.

CO-CURRICULAR ACTIVITIES

Freshmen Orientation Programme

- Designed and coordinated data-driven activities for 250 freshmen, demonstrating analytical skills and ability to work with large datasets.
- Assisted in canvassing and successfully raised over $1000, showcasing project management skills, stakeholder collaboration, and budget management.
- Utilized leadership and project management skills as Programme Committee Member to deliver a successful event, focusing on problem-solving and analytical skills.

SKILLS

Language Skills:

English: Proficient, Chinese: Conversant

Programming Languages:

Python, SQL

Frameworks & Libraries:

Talend, Apache Spark

Technologies: