

TENG XIN ZHUAN (AARON)

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EDUCATION

National University of Singapore

Aug 2021 – May 2025

Double Major in Data Science and Analytics and Computer Science

- Coursework: Natural Language Processing, Object-Oriented Programming, Software Engineering, Data Structures & Algorithms, Operating Systems, Artificial Intelligence, Machine Learning, Design and Analysis of Algorithms, Computer Organisation, Convex Optimisation, Database Technology and Management

WORK EXPERIENCE

GovTech, Software Engineer AI Bots

May 2024 – Dec 2024

[Python, DevOps, CI/CD, Linux, AWS, Terraform, Microservices]

- Contributed to the development of AI Bots, a contextual GenAI chatbot for public officers, utilizing Retrieval Augmented Generation (RAG) technology.
- Demonstrated proficiency in DevOps concepts including CI/CD pipelines, ensuring smooth and efficient software delivery.
- Utilized bash scripting and Linux environments for automation and infrastructure management tasks.
- Gained hands-on experience with AWS services and Terraform for cloud infrastructure provisioning and management.
- Collaborated on the development of microservices architecture, enhancing scalability and modularity of the AI Bots platform.
- Participated in the end-to-end agile software delivery process, contributing to feature development and deployment.
- Acquired in-depth knowledge of API lifecycle management, from design to maintenance.
- Developed and released Python packages to support various components of the AI Bots ecosystem. Integrated and maintained tooling infrastructure to support development workflows and operations.

BotDistrikt, Software Engineering Intern

Jan 2024 – Apr 2024

[JavaScript, Loopback3, EmberJS, Web-Development, Google Cloud Function, RAGAS, LangChain]

- Actively contributed to the refinement of BotDistrikt's web application, which helps our client build and deploy their own chatbots, by addressing and resolving existing bugs, ensuring a smoother user experience for our clients.
- Deployed a python google cloud function which calls the RAGAS framework to evaluate the RAG pipeline of our clients chatbot that uses LLM and integrated it to display the scores into the company's website, when clicked upon.
- Participated in client's meeting to gain Insights into their needs, subsequently implementing new features to enhance the functionality and capabilities of the web application, aligning with their evolving requirements.

Carro, Software Engineering Intern

May 2023 – Aug 2023

[Python, GenerativeAI, Large Language Model, LangChain, HTML, CSS, JavaScript, Neo4j]

- Developed a Car recommendation bot that recommends customers' cars based on their texts, utilizing KORS to extract customer's preferences and large language models coupled with LangChain and the company's available car for sale data to offer a personalised recommendation of cars for the customer, highlighting the buying points of the car.
- Showcased expertise in frontend development, utilizing JavaScript, CSS, HTML, and python's Flask framework to build an application that facilitated data uploading and transformation of uploaded data into a Neo4j graphical data for querying.
- Reported directly under the Chief of Operations of Carro, to ensure that the applications built were efficient and aligned with the company's strategic goals.

SKILLS

- Programming Languages Python, Java, Javascript, C/C++, R
- Software Engineering: Gradle, Object-Oriented Programming, REST API, Scrum, AWS Cloud, Google cloud function
- Frameworks: React, Loopback3, emberJS, Node, PostgreSQL, Git, GitHub
- Soft Skills: Teamwork, Communication, Problem Solving

EXPERIENCES

TEACHING ASSISTANT, CS2040 (Data Structure and Algorithms)

- Conducted weekly lab sessions for 28 students, teaching various Data Structures and Algorithms that they can use to tackle their weekly Coding Assignments.
- Actively replied to any questions the students had regarding solving their coding assignment and course material.