

# YI JIAHE

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## EDUCATION

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### Nanyang Technological University

B. Eng Aerospace Engineering *GPA: 4.9*

Aug 2017 - Jun 2021

## EXPERIENCE

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### Government Technology Agency

*System Engineer (Digital Twin)*

Singapore

March 2022 - Present

- Develop for, and maintain backend services deployed in Azure to aid local government and commercial agency operations
- Develop Digital Twin PoCs for different governmental agency's uses cases such as Robotics and Simulation
- Build IoT and robotic systems for automation and enabling use cases for people of special needs

### Shopee

*Automation Engineer*

Singapore

July 2021 - Feb 2022

- Maintained test environment using CI/CD tools to manage microservices and improve testing reliability
- Develop automated testing tools to auto-triage common test failures and escalate remaining failures to the process management workflow
- Implement tests ranging from unit test to end-to-end tests for new features as part of the software development lifecycle

## SKILLS

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Programming Languages: Python, Typescript/Javascript, Golang, Java, SQL  
Frameworks: React, Spring  
Cloud: AWS, Azure, GCP  
DevOps: Docker, Kubernetes, Linux, GitOps  
Languages: English (Native), Chinese (Mother Tongue), Japanese (Basic)

## PROJECTS

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### Singapore Bus Timings *Kubernetes, GCP, Phoenix, Terraform*

<https://sg.bus.jiahe.dev>

Bus timings webapp with anonymous favourites using the official LTA Datamall API

### Tunic Translator *Python, Docker, GCP, React*

<https://tunic-lang.netlify.app>

Translation webapp for a phonetic-based runic language using Natural Language Processing

### E-ink Newspaper *Python, Flask, Node.js, AWS, Arduino*

Various endpoints to retrieve a variety of content for a eInk device utilizing various AWS services for caching data.

### Stream Chat Terminal *Rust*

<https://github.com/Yi-Jiahe/stream-chat-terminal>

A command line tool built in rust using the Youtube API and OAuth to retrieve and post chat messages from the terminal.

### Spotit *Python, OpenCV*

<https://ieeexplore.ieee.org/document/9305485/>

A computer vision based solution for drone detection and 3D localization of drones

### GW2 Market Analysis *Spring Boot, AWS, PostgreSQL, Javascript*

<https://github.com/Yi-Jiahe/gw2-market-analysis>

A market analysis webapp powered by a scraper service with an API to expose historical market data.