

# JIAYU YI

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## EDUCATION

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### Singapore Management University

Bachelor of Business Management

May 2014 - Aug 2018

### Singapore University of Technology and Design

Bachelor of Engineering (Information Systems Technology and Design)

May 2014 - Aug 2018

## EXPERIENCE

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### ByteDance

Backend software engineer

Aug 2020 - Present

- Delivered an integrated onboarding system for both HR staff and new hires supporting customisable workflows
- Implemented a customisable form builder with type-checking, expression evaluation and backend integration
- Reduced human error by automating the deployment of runtime configurations from version control

### ThoughtWorks

Consultant software developer

Sept 2018 - Aug 2020

- Increased order volume via targeted voucher distribution for a food delivery app
- Reduced promotion expenses by enabling merchants to run their own promotions for an e-commerce platform
- Scaled a payment fraud detection system to support credit card payments in Indonesia for a payment processor

### GIC

Analyst

May 2018 - Aug 2018

- Implemented a job scheduling system on Kubernetes for running financial simulations reproducibly

## PROJECTS

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### Bus Eta Bot *Go, PostgreSQL*

<https://t.me/BusEtaBot>

A Telegram bot for checking bus arrival times in Singapore with 200 monthly unique users. Supports searching for bus stops by code, name or location. Data is sourced from official government APIs.

### Mahjong Party *React, Go, PostgreSQL*

<https://mahjong.party>

A website to play Singaporean mahjong online. Users can host a game or join an existing game via code. Bots can be added to fill empty seats. Moves are updated in real time using server-sent events.

### Status *Terraform, AWS*

<https://github.com/yi-jiauyu/status>

A serverless status page served from S3 and updated automatically by a Lambda function triggered by a CloudWatch timer.

## SKILLS

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Programming languages:	Go, Python, Java, Ruby, Elixir, Clojure, JavaScript
Databases:	PostgreSQL, Redis, MongoDB, Elasticsearch, DynamoDB, Cloud Firestore
Devops:	Terraform, Prometheus, Grafana, Docker, Kubernetes
Likes:	Delivering value incrementally, Automation, Pair programming
Dislikes:	Siloing, Overengineering

## AWARDS

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### James Dyson Award

James Dyson Foundation

A wearable visual awareness system for deaf and hard-of-hearing individuals inspired by visual indicators in first-person games.

2018