

Jia-Jiun(James) Ku

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SUMMARY

Fullstack developer with over 8 years of programming history since high school. Keen about learning technologies and realizing ideas with code.

SKILLS

Technical Skills

- Languages: Python, C, C++, Typescript, JavaScript
- Web Dev: React.js, react-query, GraphQL, HTML, CSS, Redis, MySQL, Postgres, MongoDB, Node.js, etc.
- DevOps: GCP, Docker, Linux
- Others: googling :)

Languages

- Standard Chinese(native), Japanese(N1), English

EXPERIENCE

KADOKAWA Taiwan

Fullstack Engineer

Taipei, Taiwan

April 2021 – Current

- **KadoKado** (digital publishing platform) 📺Live
 - Built frontend components & backend APIs using **React**, **GraphQL**, **Node.js**, **PostgreSQL**, etc.
 - Designed & Implemented the **transaction system**, enabling buying & renting chapters of books using points, as well as **redeeming vouchers**
 - Introduced **automated unit testing** to backend service & repository layers using **jest** & **github actions**
 - Implemented a backstage with **React** & **Antd** for editing content & generating/managing voucher codes
 - Implemented frontend **authentication** components following **OIDC**
 - Reduced cost significantly by uploading static files to **Google Cloud Storage** in **CI** flow for serving
- **Integration of Shopify & ERP**
 - Coded **CronJobs** to automatically **crawl quantity of products** from the supplier's website with **regex**
 - Automated the process of issuing invoices & updating shipment status by using **webhooks** and **task queues**
 - Implemented an **auto-login** script for shopify users to login from KADOKAWA's account center through **OIDC**
- **KTW Account** (account center for all KADOKAWA's services)
 - Improved **readability & maintainability** of KADOKAWA's account center by introducing **Typescript**
 - Coded scripts using **TypeScript** to **migrate** member & bonus data from legacy Ecommerce site
- Deployed and managed microservices with **serverless architecture** using **Google Cloud Platform**
- Created/Updated **CI/CD** flows for some projects using **Docker** & **GitHub Actions**
- Deployed legacy websites on VMs using **Apache** and updated/maintained them

Aurora Tech

Backend Engineer

Taipei, Taiwan

Nov 2018 – July 2019

- Developed the backend API for a lottery game web app using **PHP**, **Redis**, **RabbitMQ**, and **MySQL**
- Improved the performance of some methods significantly by merging **Redis** and **SQL** requests
- Improved performance by over **100%** by incorporating **rabbitMQ** when updating lottery numbers in the database
- Designed and implemented how to store and automatically update lottery statistics each term

EDUCATION

University of Virginia

Master of Computer Science GPA: 3.9/4.0

Charlottesville, VA

Graduation: Dec 2020

National Tsing Hua University

BA in Computer Science GPA: 3.7/4.0

Hsinchu, Taiwan

Graduation: June 2018

PROJECTS

imbiased 📺Github 📺Live

- Voting platform implemented with **React.js**, **Redux** and **Next.js** in **Typescript**
- Built the **RESTful** backend API with **C#** and **.Net Core**
- Full CRUD application that supports creating and editing topics, comments, etc in a **SQL** database
- Deployed the backend API to a **Docker Swarm** on a VPS with **traefik** as reverse proxy

ResumeBuilder **Live**

- Resume builder app built with **Typescript** and **React.js**
- Real time pdf preview

Trending Topics **github** **Live**

- App to view historical daily trends
- Implemented in **Typescript** with **Next.js**, a react framework that supports server-side rendering
- Automatically collects data from google trends into a database every hour with **node-cron**