Matthew Kwong

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# Recent Experience

Senior Web Engineer, [Viu](https://www.viu.com/) 09/2023 – Present

* Collaborated with cross-functional teams to refine user experiences and legal compliance and contributed to SEO efforts and site optimization for a Next.js website.
* Addressed and rectified critical bugs in alignment with the PMs’ priorities, ensuring optimal site functionality and performance.
* Conducted thorough peer code reviews to ensure code quality while mentoring junior engineers, fostering their professional growth, and enhancing team productivity.
* Streamlined the CI/CD pipeline, cutting deployment times by 33%, leading to faster and more efficient deployment processes.

Frontend Engineer, [TecPal Ltd.](https://www.tecpal.com/) 10/2022 – 09/2023

* Implemented key features in Vue and React applications, including an authorization system, shopping list, customer review management system, and blog, enhancing the user experience and driving business growth.
* Developed a personalized Strapi plugin that enables live content preview, resulting in a streamlined content creation and editing process and increased productivity.
* Conducted a technical review and led proof-of-concept development for the migration of web applications from Vue to Astro and Next.js, paving the way for future adoption of these technologies.
* Spearheaded the implementation of Turborepo, laying the groundwork for a successful transition and improving the efficiency of the development process.

Programmer (Business and Administrative Systems) 05/2022 – 09/2022

Programmer (Database Management System) 08/2021 – 05/2022

Junior Programmer (Database Management System) 07/2019 – 08/2021

[EDPS Systems Limited](http://www.edps.com.hk/) · [Hospital Authority](https://www.ha.org.hk/) (Secondment)

* Managed HA.org.hk and multiple intranet web applications, ensuring their smooth operation and meeting the needs of stakeholders.
* Led the strategic planning and timely execution of a web application operating system and database migration within one week, delivering a seamless transition and minimizing disruption.
* Conducted a successful database knowledge-sharing session for more than 100 technical professionals, expanding team expertise and fostering collaboration.
* Supported more than 10 application teams on MySQL deployment and maintenance, ensuring optimal database performance and minimizing downtime.
* Conducted a POC project on data virtualization using the Delphix platform, successfully supporting 3 types of databases and over 50 database instances and enhancing the team's capabilities in this area.
* Developed a time off application system using React, Express, and MySQL, providing an automated and streamlined solution for managing employee time off requests.

# Key Skills

## Frontend

MUI, Next.js, React, SEO, React Hook Form, TypeScript, Zod, Zustand, TanStack Query, React Router, Redux, Tailwind CSS, Vue, Vuetify, Vuex, Pinia, Quasar, SWR

## Database

MySQL, Microsoft SQL Server, Sybase ASE, Oracle Database, MongoDB

## Backend

CASL, class-validator, Express, NestJS, Spring Boot, TypeORM, Firebase, Prisma

## Content Management System

Contentful, Strapi, WordPress

## DevOps

Delphix, GitHub Actions, Amazon CloudFront, Amazon ECR, Amazon S3, Argo CD, Bitbucket Pipelines, Docker, Jenkins, OpenShift

# Education

## MSc in Information Systems Management

[HKUST](https://hkust.edu.hk/) · 08/2022 – Present

Technology Innovation and Entrepreneurship Concentration

## BEng in Computer Science

[HKU](https://www.hku.hk/) · 09/2015 – 12/2019

Second Class Honours (Division One)

# Contributed Open-Source Projects

* [MUI Core](https://mui.com/core/)
* [Prisma Read Replicas Extension](https://github.com/prisma/extension-read-replicas)
* [Valibot](https://valibot.dev/)
* [Vercel Style Guide](https://github.com/vercel/style-guide)