

Chih-Hao Chen

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EDUCATION

MCGILL UNIVERSITY

PHD IN MECHANICAL ENGINEERING

Jan. 2015 - Apr. 2020 | Montreal, Canada

GPA: 4.00 / 4.00

IMPERIAL COLLEGE LONDON

MSC IN ADVANCED COMPUTATIONAL

METHODS FOR AERONAUTICS, FLOW

MANAGEMENT AND FLUID

STRUCTURE INTERACTION

Sept. 2012 - Sept. 2013 | London, UK

GPA: 3.96 / 4.00

LINKS

Github:// [Chih-Hao Chen](#)

LinkedIn:// [Chih-Hao Chen](#)

Personal Webiste:// [Chih-Hao Chen](#)

PROJECTS

FRONTEND DEVELOPMENT

VestaEquity (React.js, TypeScript, Canvas)

Finlogix Chart (React.js, D3.js, Canvas)

MyEscrow (React.js, Next.js)

NewsClient(Swift)

MyPortfolio (Vue.js/React.js)

App Store Mockup(Swift)

BACKEND DEVELOPMENT

VestaEquity (Django)

MyEscrow GraphQL API

(Node.js • TypeScript • Prisma •

MongoDB • PostgreSQL)

TrainingBuddy REST API

(Node.js • MongoDB)

SKILLS

DEVELOPMENT SKILLS

Full-Stack Development

App Development

Micro-Services

Docker • Kubernetes

PROGRAMMING SKILLS

JavaScript • Typescript • Swift • C •

Python • Go

DEV-OPS SKILLS

AWS • Azure • GitHub • CI/CD

EXPERIENCE

JSTYLE HOKKAIDO | SENIOR FULLSTACK DEVELOPER

Apr. 2022 - Present | Japan

- Frontend development of the official website - *JstyleHokkaido*;
- Frontend of the ski tour website *Jstyle Ski Tour*;
- Full-stack development and architecture plan of the booking website *Japan Love*;
- Associated Dev-Ops work for the booking platform in AWS.

VESTA EQUITY | SENIOR DEVELOPER - INDEPENDENT CONTRACTOR

May. 2022 - Present | US

- Frontend development of its Web3 blockchain real-estates platform - *VestaEquity App*;
- Integrated wallet connection to Pera and Exodus wallet based on Algorand ecosystem;
- Support of backend Django infrastructure for *VestaEquity App*;
- Support of its marketing campaign for *VestaEquity Official Site* on HubSpot CMS.

CLOUD-INTERACTIVE | TECH LEAD

Nov. 2021 - Mar. 2022 | Taipei, Taiwan

- Recruited and led a team of six members to maintain and develop new full-stack features into the CirrusLED CMS platform, *ScreenHub*;
- Led another team of three members to build a cross-platform mobile app with Flutter for a start-up company, *Just Kitchen*.

ZEROLOGIX | SENIOR FRONTEND DEVELOPER

July 2021 - Nov. 2021 | Taipei, Taiwan

- Developed new features for *Finlogix Chart*;
- Maintained the current chart product with backend developers;
- Supported *Finlogix Widgets* for its offered financial services.

MYGO | FULL-STACK DEVELOPER

Aug. 2020 - Mar. 2021 | Taipei, Taiwan

- Developed a real-estates escrow repository platform;
- Developed a responsive frontend website with React.js and Next.js;
- Developed the GraphQL backend API with TypeScript;
- Employed a micro-services architecture with Kubernetes;
- Introduced the automated CI/CD pipeline to the current development.

MCGILL UNIVERSITY | POSTGRADUATE RESEARCHER

Jan. 2015 - Apr. 2020 | Montreal, Canada

- Proposed the concept of dynamic deflated restarting in Krylov subspace solvers;
- Developed novel linear solvers for solving ill-conditioned systems with an optimal balance between convergence and required memory footprint;
- Implemented and verified the proposed solvers with industrial aircraft bodies in the in-house code of the advanced aerodynamics group in Bombardier Aerospace for aircraft design;
- This work led to two published journal papers and three conference presentations.