Javier Phon Zhee Kai

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Additional links: Personal Website | GitHub | LinkedIn

EDUCATION

National University of Singapore (NUS)   2020 – 2024

- Bachelor of Computing (Computer Science) With Honours
- Grade: First Class Honours (Highest Distinction) , GPA: 4.54 / 5
- NUS Merit Scholarship

Hwa Chong Institution   2016 – 2017

- Achieved 88.75RP for GCE 'A' Levels
- Distinctions in H2 Mathematics, Economics, Physics and Chemistry

WORK EXPERIENCES

Coinhako

Software Engineer II, Trading Desk	Jul 2024 – Present
Software Engineer I, Trading Desk	Jan 2024 – June 2024
Software Engineer Intern, Trading Desk	May 2023 – Dec 2023

- **Led the development of a comprehensive risk management system**: Heavily involved in system design, development, testing, deployment, and integration of various major crypto exchanges into the risk management system, ensuring robust risk controls for the trading team.
- **Enhanced monitoring and visibility**: Integrated telemetry services such as Datadog and Sentry, enabling real-time metrics collection and error tracking, with automated Slack notifications for trading desk services.
- **Boosted test coverage**: Increased test coverage of trading-desk services by up to 50%, significantly improving reliability and reducing potential downtime.
- **Developed both public and internal APIs**: Built and thoroughly tested APIs for public data retrieval and internal trading use, ensuring seamless access to critical market information and trading functionalities.
- **Published essential trading libraries**: Created and maintained libraries, including a FIX protocol decoder, that are heavily utilized by the trading team for efficient data processing and automation.
- **Automated trading processes**: Streamlined and automated key trading operations, improving efficiency and reducing manual workloads for the trading team.
- **Managed cloud infrastructure**: Maintained and optimized AWS cloud infrastructure for trading desk services and trader tools using Terraform, ensuring high availability and scalability.

National University of Singapore

Teaching Assistant (Software Engineering)	Jan 2022 – Dec 2023

- Teaching Assistant for a software engineering course, CS2103/T, at NUS during the following academic periods:
  - AY23/24 Sem 1 (Aug 2023 – Dec 2023)
  - AY22/23 Sem 2 (Jan 2023 – May 2023)
  - AY21/22 Sem 2 (Jan 2022 – May 2022)
- Tutored students on software engineering principles, concepts, and practices.
- Graded student's practical exams.
- Provided feedback and clarified any doubts students may have with topics taught in the course.

Success IT Consultancy & Services

Software Engineer Intern	May 2022 – Jul 2022

- Built, deployed and maintained both the frontend and backend of the company's new SAAS product.

- Spearheaded the backend development and overall design for the master control app of the company's new SAAS product.
- Developed the company's backend services with Azure, which includes writing and deploying Azure functions, using Azure Databases and SQL to interact with databases and using Azure DevOps to write pipelines to deploy static web apps and functions.
- Redesigned, refactored and developed the company's Authentication API and other backend services, to make them more secure, versatile and flexible in supporting more of the company's products.

Powerhouse AI
Software Engineer Intern   Dec 2021– May 2022
- Designed, developed, and maintained several new features as well as the UI of the application.
- Integrated the application's frontend and backend together with RESTful APIs.
- Set up Firebase (Google) analytics and crash analytics for the application.
- Utilised Google BigQuery and Google Cloud Platform (GCP) to generate and automate business intelligence reports for the company and clients.
- Ensured that the application is of the best possible performance, quality, and responsiveness.
- Identified bottlenecks and fixed bugs in the application.
- Maintained code quality, organisation, and automatization of the application.

PROJECTS AND COURSES

Dfmn_bot – Telegram bot recommender service
- Built with PyTelegramBotAPI and deployed on Heroku, dfmn_bot is a telegram bot that uses the Google Maps APIs to help users make suggestions and recommendations

Productivity Police – iOS and Android mobile application

- Developed a mobile application which is compatible on both iOS and android that provides some useful productivity features that most students might need
- Developed the frontend and the backend of the app using React Native with Expo and Firebase respectively
- Completed the project with an extensive set of core features while adhering to good software engineering principles.

Hackwagon Academy Data Science Courses (DS)
- Achieved Distinction Grade in DS101: Introduction to Python Programming
- Achieved Distinction Grade in DS102: Data Analytics with Python Programming

SKILLS AND PROFICIENCIES

Languages:

- Proficient: Java, Python, Go, SQL
- Intermediate: JavaScript, Typescript, C, C++, C#, Ruby

Frameworks/Libraries/Tools:

- Proficient: Docker, Kubernetes, ArgoCD, Sentry, Datadog, Terraform
- Intermediate: Express, Flask, Angular, Expo, React (Next.js),

Cloud Technologies:

- Amazon Web Services: AWS Elastic Compute Cloud (EC2), Relational Database Service (RDS), Elastic Kubernetes Service (EKS), S3, Lambda

- Microsoft Azure: Azure Functions, Pipelines, Databases, SQL, Storage

- Google Cloud Platform: BigQuery, Firebase, Google Maps Platform, Google Analytics