Nicholas Cheong Wei Juan

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Programming Skills

Languages: TypeScript, JavaScript, Java, MySQL, Python, C, Haskell, Prolog
Frameworks: NodeJS, Nest.js, React, MongoDB, PRISMA, Knex.js, Kafka, Spring Boot, PubSub
Tools: Git, Docker, npm, GCP, AWS, Bitbucket, Jest, Octopus

Education

University of Melbourne <div align="right">Melbourne, VIC</div>
BSc in Computer Science and Software Engineering; WAM: 75.591 <div align="right">Feb. 2018 – Dec. 2020</div>

- **CourseWork**: Engineering Systems Design, Design of Algorithms, Database Systems, Elements of Data Processing, Object Oriented Software Development, Machine Learning, Computer Systems, Web Information Technologies, Software Modeling and Design, Logical Methods, Declarative Programming, Models of Computation

Experience

CAFX <div align="right">Sydney, NSW</div>
Software Engineer <div align="right">Jan 2022 - Present</div>

- Project Lead for CAPAY system compliance reporting. Collaborated with internal and external entities to gather requirements, then designed and implemented a system to automate IFTI and PTR reporting.
- Service owner and go to person for various microservices. Implemented a Spring Boot microservice to trade with 3rd party counterparts. Service was encapsulated in Docker and deployed to AWS cloud formation using Bitbucket pipelines + OCTOPUS deploy.
- Took part in the migration process of backend services from JavaScript to Typescript. TypeScript allows for easier error detection and improves code maintainability. Frontend code was also migrated later on.
- Implemented the unit test infrastructure for microservices using Jest, ensuring comprehensive code coverage and reliable software quality assurance.
- Developed RESTful APIs for the CAPAY System. Utilized Nest.js for server-side rendering and routing, Prisma for database interactions, and implemented Controllers and DTOs to ensure clean and structured API design.
- Designed and implemented new dynamic reporting module for CAPAY. Module translates json to rawSQL through custom algorithm.
- Conduct weekly knowledge sharing to update various stakeholders (non-tech) on feature updates/progress. Directly report to CEO + heads of various departments.
- Wrote comprehensive coding documentation in Confluence, providing clear instructions and guidelines for developers and future maintenance.

LeanData.io <div align="right">Melbourne, VIC</div>
Fullstack Lead Engineer <div align="right">Sept 2020 - Dec 2021</div>

- Utilised JavaScript, NodeJS, MySQL to maintain and develop Order Management System of a large International sporting brand. The service was hosted on GCP.
- Implemented additional security to various front facing services by utilising GCP reCaptcha to prevent bot spams.
- Implemented and managed Kafka consumer service to ensure stocks quantity are well updated and reconciled
- Implemented and maintained a financial tool which extracts and formats data from various sources, then sends it to a data lake so that the data can be used by various consumers (generate reports/restock/update stocklist/...).
- Responsible for planning weekly sprint + analysis meetings (AGILE) with clients to identify needs to deliver working, up to standard code.

Projects

E-portfolio App *https://eportfolio-5head.web.app | NodeJS,React, Elasticsearch, Firebase*
Website for students to share their E-portfolio and work experience. Allowing job recruiters and students to connect and easily share info. [Final Year Project]

Husky App *https://social-bc15d.web.app | NodeJS, MaterialUI, React*
Simple Twitter clone created to practice fullstack development

Salted Caramel App *| NodeJS, MongoDB, HTML*
Simple web food ordering web app (customers can order just by scanning a qr code).