Raphael Chua

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Summary

Software Engineer with almost 5 years of experience in Singapore. I strive to develop speedy and scalable applications. I possess expertise in offering consulting services to both clients and colleagues. My skillset includes adept problem-solving and architectural design capabilities. Furthermore, I have a strong aptitude for quickly grasping new frameworks and techniques.

Experience

Standard Chartered Bank | Singapore
Senior Developer | 04/2024 - Present

- Led a team of 6 in automating processes that deliver infrastructure to users within a single day, streamlining operations and enhancing productivity.
- Developed database state management systems using PostgreSQL to manage infrastructure provisioning and track the status of virtual machines for each team.
- Created an Azure DevOps pipeline extension in NodeJS, integrating various internal tooling for efficient infrastructure provisioning.
- Designed a YAML manifest validator in NodeJS that checks the compliance of each application team's infrastructure requirements against company standards.
- Collaborated with the Puppet Automation Team to integrate Puppet functionalities into Azure DevOps pipelines, further automating and securing deployment processes.

Standard Chartered Bank | Singapore
Junior Developer | 08/2022 - 03/2024

- Engineered a responsive React application, enhancing data accessibility and user experience by integrating Elasticsearch for dynamic data querying.
- Developed and implemented a bank-wide Azure DevOps CI/CD YAML template, standardizing development processes and significantly reducing deployment errors.
- Innovated a base template integrating compliance checks, dynamically selecting deployment stacks based on user inputs, thereby improving flexibility and security.
- Created a Node.js-based Azure DevOps pipeline task extension for artifact integrity verification during continuous deployment stages.
- Led the transition of application teams from Bitbucket and Jenkins to Azure DevOps, minimizing downtime and enhancing development workflow.

Envision Digital | Singapore
Software Engineer (Frontend) | 05/2021 - 07/2022

- Implementing unit testing for various react components using Jest and React-Testing libraries.
- Responsible for handling multiple change requests in the front-end
- Build various react components in typescript using envision's custom libraries
  - Data visualization and forecast graphs
  - Building Alert dashboard to monitor IoT devices
  - Configuration web page for recommender system
- Provide bug fixes support in web application
- Contribute to Envision UI library.
- Responsible for deployment of various services in the pipeline.

NTT Ltd. | Singapore
Software Consultant | 07/2020 - 05/2021

- Worked on a Change Request for an existing Java application using spring, hibernate and struts
- Handled application support and bug fixes for the Java application.
- Responsible for initial setup of development environment
  - Worked with various team members to plan architecture and database design for a new project.
- Worked on a project using ReactJS and NodeJS.
  - Apply React hooks and optimization using memorization technique to the application

- Create custom hooks to supplement and organize the application code.
- Build multiple react components using the principles of Higher order component.
- Implement dynamic logging with the use of RabbitMq queue system.
- Modularization technique applied on NodeJS Api routes.
- Worked on implementing mostly asynchronous function using async and await
- Worked with OracleDB using SQL and Typeorm.

Aviva Asia Pte. Ltd. | Singapore
Cloud Engineer | 07/2019 - 06/2020

- Worked on Terraform script to automate AWS resources
- Worked on assessing applications for cloud migration
- Designed the architecture of the cloud infrastructure
- Gathering business requirements from various business units
- Worked with the technical leads on adjustments/modification of the applications
- Worked with cloud architect on the design of the cloud architecture diagram
- Understood the risks involved in using various AWS resources
- Worked on version upgrades on jobs monitoring application with NodeJS
- Worked on Insurance Plan Proposal application UI with AngularJS

National Healthcare Group Polyclinics | Singapore
Web Application Developer (Part-Time) | 09/2017 - 12/2018

- Worked with the application owner to deliver improvements on Staff management portal
- Refactored SQL statement and corresponding Java logic
- Developed leave planner calendar for nurses and doctors
- Implemented Tool-tips in the leave calendar for easy navigation and usage

Education

University of Glasgow | Singapore
Computing Science | 06/2019

- Second Upper-Class Honours

Nanyang Polytechnic | Singapore
Diploma in Engineering Informatics | 06/2015

- GPA 3.32/4

Skills

ReactJS, Node.js, Typescript, PostgresSQL, Azure Devops, AWS, Leadership Experience, Java, Python, Blockchain, MongoDB, Oracle DB

Publication

Published a paper regarding Edge Computing in IEEE Globecom 2019
(https://ieeexplore.ieee.org/abstract/document/9013329)

Languages

English