Nicholas Tng Yong Kang

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Availability: Jan 2025 to Aug 2025

EDUCATION

School of Computing, National University of Singapore   **Aug 2022 - May 2026**

Bachelor of Computing (Honours)

- Languages: Java | Python | JavaScript | MySQL
- Frameworks: React | Django | Spring Boot

WORK EXPERIENCE

Accenture – *Fullstack Software Engineering Intern*   **Aug – Dec 2024**

- Engineered a high-performance User Interface in ReactJS, directly improving user engagement for tens of thousands of annual users, enhancing overall user satisfaction
- Designed and implemented scalable backend solutions utilizing Java Spring Boot, streamlining application performance and reliability
- Deployed and managed cloud-based solutions using Amazon Web Services technologies, including SNS and SQS, optimizing operational workflows and ensuring seamless business functionality
- Created RestAPI Endpoints to streamline data interaction, ensuring efficient and secure communications between client and server

Seagate – *Fullstack Software Engineering Intern*   **May – Aug 2024**

- Developed a Python Django-based application which automated the creation of dynamic graphs for data analysis, reducing the time taken by up to 70%
- Augmented data visualization capabilities with Matplotlib and Bokeh, enabling more in depth and effective failure analysis for a department of over 50 staff members
- Implemented SAAS-based automation for login authentication and data retrieval from the intra-net database with Selenium and Webdriver technologies, improving efficiency by up to 30%
- Utilised Redis and Celery for performing of asynchronous requests, improving overall user experience leading to high user onboarding rate in the department

National University of Singapore – *Data Structures and Algorithms Teaching Assistant*   **Aug 2023 – May 2024**

- Awarded Honours List of teaching assistants, given to only a select few of the best teaching assistants
- Partnered with professors to teach the concept and use cases of Data Structures such as HashMaps and Linked-Lists, and various algorithms such as sorting and graphing algorithms
- Devised over 20 sets of lesson plans and course materials for approximately 100 students
- Obtained a feedback score of 4.6/5, above the average teaching assistant score of 4.0

PROJECTS

WealthWatch - A Finance Tracking Application   **May 2023**

- Built a finance tracker application using ReactJS, MongoDB, ExpressJS, allowing users to track expenses and view stock prices
- Implemented data visualizations such as donut graphs for cashflows, providing detailed insights of financial transactions, helping users save 25% more every month
- Integrated API calls to acquire latest stock prices from all exchanges, ensuring data accuracy as recent as 15 minutes and retrieving data from its market entry
- Enhanced users' abilities to analyse price graphs through dynamic resizing, enabling zooming into intervals ranging from minutes to days

ProjectPRO - A Contact Management Application   **Aug - Dec 2023**

- Built a contact list management application for students using Java, allowing users to manage contacts as well as find common free timeslots among groups for meetings
- Maximised coding principles such as OOP and Software design patterns such as Command Pattern to increase decoupling
- Increased test code coverage by over 40% with test cases and utilised JUnit to automate unit, integration and system testing

COURSES AND CERTIFICATIONS

Linkedin Learning: Django Developer | SpringBoot Microservice
Codecademy: Frontend Developer
UC San Diego: Algorithmic Design and Techniques