Peh Hoe Khim Marcus

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Performance-driven penultimate Computer Science undergraduate at National University of Singapore, with experience in Agile Software Development. Possess strong problem-solving, analytical and time management skills.

EDUCATION

National University of Singapore (NUS)   **Aug 2020 - Present**
- Bachelor of Computing in Computer Science (Honors)
- Expected Date of Graduation: Dec 2023
- CAP: 4.72/5.00 (Highest Distinction)

WORK AND INTERNSHIP EXPERIENCES

National University of Singapore, Teaching Assistant   **Jan 2021 - Present**
- Led more than 60 students towards active learning of Computer Science modules
- Mentored students by providing apt feedback to queries and assignments
- Conducted modules: CS1010X Programming Methodology I, CS2030S Programming Methodology II, CS2040S Data Structures and Algorithms, CS2103T Software Engineering

Roboto Coding Academy, Coding Instructor   **Jul 2020 - Present**
- Administered coding lessons for kids from age of 5 to 15 to ignite interest in coding
- Curated curriculum in Python, Html etc.
- Taught in prestigious schools such as Victoria School and Chung Cheng High School

Government Technology Agency, Software Engineering Intern   **May 2022 - Jul 2022**
- Developed platform to crowdsource sentiments from members of public
- Improved security by implementing Two-Factor Authentication
- Increased server query response time under load by 200x through API restructuring

Reluvate Technologies, Software Engineering Intern   **Nov 2021 - Jan 2022**
- Established end to end web applications to house AI and Automation solutions
- Created backend APIs for a multi-national real-estate company
- Constructed Optical Character Recognition (OCR) to process pdf with more than 95% accuracy

NUS Orbital Program, Software Developer   **May 2021 - Jul 2021**
- Competed in the NUS Orbital Software Development Program to achieve Artemis (Distinction)
- Utilized MERN stack to manage inventory and manage sales
- Employed comprehensive end-to-end testing of primary user flows with Cypress

PROJECTS

Markeet - Point of Sales (github.com/marcuspeh/markeet)
- Built a web-based Point-Of-Sales system to targets SMEs and customers in a team
- Constructed a 3-tier application (frontend, backend, database) with *MongoDB, Express.js, React.js and Node.js (MERN)*
- Incorporated a telegram bot to queries from data base using *Python*

Around the World in $80 - Expense splitting (github.com/marcuspeh/Around_The_World_In_80)
- Developed a brown field project with documentation in a team of 5
- Use various software design pattern such as "command pattern" and "model, view, controller"
- Programmed in *Java* using JavaFx Library with 90% code coverage

2048 Solver (github.com/marcuspeh/2048solver)
- Created a solver for 2048 game, utilizing Monte-Carlo algorithm
- Achieved an overall of 94% win rate
- Programmed in *Python*

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EXTRA-CURRICULA EXPERIENCE

JPM's Code for Good 2022 Hackathon   **Oct 2022**
- Built prototype for social good organization (SG Assist) to better serve constituents
- Consolidated ideas to formulate product features
- Streamline process of application for support / grant

GIC's Code to Impact 2022 Hackathon   **Sep 2022**
- Delivered an instrument tracking web application catered to business
- Added extra features such as cross checking of data and logging system
- Spearheaded team of 5 to win 2nd runner up

Hack&Roll 2022 Hackathon   **Jan 2022**
- Created expense splitting phone application to target pain point of group travel
- Developed backend in Django

ADDITIONAL INFORMATION

- **Programming Languages:** Python, Java, C, C++, JavaScript, TypeScript, SQL
- **Libraries & Frameworks:** ReactJs, NextJs, Django, Flutter, Tensorflow
- **Databases:** Postgres, SQLite, MongoDB
- **Tools:** Figma, Heroku, Unix, Git
- **Soft Skills:** Leadership, Problem Solving, Independent, Strong Attention to Details