

# KEA HARVAN SUYANTO

HP: (+65) 8199 2400    Email: kea\_harvan@u.nus.edu

## EDUCATION

### National University of Singapore

Aug 2023 - Present

#### Bachelor of Computing in Computer Science

- Specialising in Database Systems and Software Engineering, with an interest in Artificial Intelligence and Operating Systems
- (Predicted) minor in Entrepreneurship
- Coursework: Database Systems, Big Data Systems for Data Science, AI and Machine Learning, Operating Systems, Software Engineering, Computer Networks, Data Structures and Algorithms, Discrete Structures, Computer Organisation, Calculus for Computing, Linear Algebra, Probability and Statistics

### Singapore Management University

Aug 2022 - Jun 2023

#### Bachelor of Business Management

- Dean's Lister for the Lee Kong Chian School of Business for Academic Year 22/23
- Specialising in Digital Businesses

## TECHNICAL SKILLS

- Programming Languages: Proficient in Java, Python, Javascript, SQL, Bash
- Tools and Frameworks: React, Express.js, Node.js, MongoDB, Git, PostgreSQL, PyTorch, Numpy, OpenCV

## WORK EXPERIENCE

### Lab Tutor, National University of Singapore, Singapore

Jan 2025 - Present

- Conducted weekly 2-hour learning sessions for 30+ students on the Java programming language, focusing on programming paradigms such as Object Oriented Programming and Functional Programming
- Taught students programming basics using Vim in a Bash (WSL2 Ubuntu) environment. Assessed students using bash scripts, grading over 150 assignments

### AI Engineer Intern, PT. ADI CITRA SAKTI, Semarang

Dec 2024 - Jan 2025

- Trained a facial recognition model capable of handling multiple input video streams leveraging OpenCV, attaining a 40% increase in precision through hyperparameter tuning, image augmentation, and dataset preparation
- Implemented an internal performance benchmarking tool for a multi-classification model using a confusion matrix, streamlining training and testing

## PROJECTS

### Full-Stack Developer, ReVerb: [github.com/kea-S/ReVerb](https://github.com/kea-S/ReVerb), Singapore

May 2024 - Aug 2024

- Built and deployed a web application to educate and motivate musicians of all levels utilising React, Express, NodeJs and MongoDB utilising Git and Github for version control, accomplishing the Advanced level of achievement for the Orbital program
- Developed a quizzing platform with stepped lesson plans tailored to users' skill levels capable of sound generation and a Duolingo-esque hearts system to discourage brute forcing, achieving 80% improved learning outcomes among reviewers
- Implemented a metronome with functionality to save, edit, and delete songs using MongoDB and Express, enabling a more streamlined user practice routine
- Created user activity, React component, and database entity relationship diagrams to better visualize application structure

## VOLUNTEER EXPERIENCE

### Honorary General Secretary, Espresso III x AphasiaSG, Singapore

Apr 2023 - Aug 2023

- Optimized hour allocation for 20+ volunteers with linear programming in Microsoft Excel, ensuring each member could achieve 80 hours of service within a given timeframe
- Facilitated group activities educating 20+ volunteers on Aphasia and how to conduct proper service