Kenneth Dave Bahana

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EDUCATION

INSTITUT TEKNOLOGI BANDUNG   Bandung
Undergraduate Student of Engineering, Major in Informatics (STEI ITB)   July 2021 - NOW

SANCTA URSULA BSD   Tangerang Selatan
Junior & Senior High School   2015 - 2021

SKILLS

Technicals : C++, Python, Java, SQL, HTML5, CSS3, Javascript, PHP, Laravel, React.JS, Next.JS, Git, Figma, Pandas, Microsoft Office, Bootstrap, Node.js, Express.js, Golang, SQL, MariaDB, MySQL, PostgreSQL, SQLite, GitLab, GitHub, Typescript, Prisma, Tkinter, JavaFX, Pandas, NumPy, Docker, Chakra UI

Languages : English, Indonesia

PROJECTS

Face Recognition Application   November 2022
- Developed a face recognition application using Python and the Tkinter library to create a user-friendly graphical user interface (GUI).
- Implemented the face recognition algorithm manually, utilizing Eigen Face and QR Decomposition techniques.
- Utilized Eigen Face to extract the principal components from facial images and represent them as feature vectors.
- Employed QR Decomposition to efficiently solve the linear system involved in the recognition process.
- Integrated the application with the ability to recognize faces from both static images and live camera feeds.
- Link : https://github.com/kenndave/Algeo-Face-Recognition

Operating System Shell Application   February 2023 - May 2023

- Developed a shell operating system application from scratch, implemented to run on QEMU emulator.

- Created a GUI with framebuffer support, managed memory segmentation using Global Descriptor Table (GDT), and successfully entered protected mode for access to advanced hardware features.
- Developed a Keyboard Device Driver to handle keyboard input and enable user interaction with the operating system.
- Implemented a FAT32 filesystem for file management with paging techniques for efficient memory management.
- Implemented User mode for protected execution of user application.
- Developed a command-line interface shell for user interaction.
- Link : https://github.com/kenndave/OS-Kernel

Lottery System Website   December 2023 - January 2024

- Developed a Web3-based website utilizing Next.js, a React framework, and Azle framework for the backend, leveraging canister as the backend technology.
- Designed the user interface using Typescript language with Tailwind and Chakra UI styling, focusing on features usability and simple designs for pleasing end-users experience.
- Implemented robust authentication using internet identity to ensure the security of the Web3 system, enhancing user privacy and trust in the platform
- Link: https://github.com/kenndave/web3-lottery-system

Recipe Management Application   April 2023

- Developed a desktop based application with Python and PyQt5 library for GUI
- Implemented a database scheme using SQL connected to the application
- Implemented back-end features for functionalities in overall recipes of the application
- Added Unit Test framework for rigorous testing to prevent bugs and ensures reliability
- Link: https://github.com/kenndave/ReChefy-Python

EXPERIENCES

KELUARGA MAHASISWA KATOLIK ITB   **Bandung**

Staff of Choir Division

- Actively engaged as a choir member during church masses contributing to the musical worship
- Responsible for coordinating choir group from schedules for the church masses hosted by KMK ITB
- Attending and scheduling regular rehearsals to prepare for choir performances.

VOLUNTEER WORK

- International Ursuline Youth Camp (IUYC), as Service Team Member.   August 2018
- Serviam Vaccination Centre, Jakarta and Labuan Bajo   July 2022