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EDUCATION

Bandung Institute of Technology (ITB), Indonesia

Major in Informatic Engineering

August 2021 – Present

- Current GPA: 3.82/4.0
- Relevant courses: Web Based Application Development (3 course credits – AB grade), Software Engineering (4 course credits – A grade), Database (3 course credits – A grade), Algorithm Strategies (3 course credits – A grade), Data Structures and Algorithm (4 course credits – A grade)

PROJECT

YPS Connect

Feb – May 2024

- Developed a comprehensive web-based HR management system for Yayasan Pendidikan Seno, utilizing Next.js for both frontend and backend components, which enabled features like presence logging, payroll processing, and contract management.
- Implemented a robust client-server architecture using MongoDB Atlas as a NoSQL database to handle real-time data operations securely and efficiently, ensuring reliable data management and user authentication accessible from both desktop and mobile platforms.

Post

May 2024

- Developed 'Post', a web application that allows users to create, edit, and delete posts with titles and content, using Laravel framework and MVC architecture to handle data manipulation and presentation efficiently.
- Implemented a secure user authentication system using PHP Laravel, enabling features such as user registration, login, and logout functionalities to manage access control.
- Utilized an SQL database to store and retrieve user and post data, ensuring reliable data management and scalability for the web application.
- Github link: <https://github.com/althaafka/post>
- Demo: post-althaafka-althaafkas-projects.vercel.app

Bondoman

Mar 2024

- Developed 'BondoMan', an Android application for managing financial transactions, enabling features such as transaction entry, modification, and deletion, along with scanning and uploading of transaction bills.
- Implemented advanced functionalities such as graphical representation of income and expenditure, export of transaction data to Excel, and email report distribution to enhance user financial tracking.
- Integrated a secure authentication system that requires users to log in every five minutes, ensuring data security, and added a unique feature for embellishing photos with twibbon for personalized user experiences.
- Github link: <https://gitlab.informatika.org/if3210-2024-android-cms/if3210-2024-android-cms>

Crypt

Feb 2024

- Developed a secure web application for encrypting and decrypting text and files, utilizing Node.js for server-side logic, HTML and JavaScript for client-side functionality, and Bootstrap for responsive front-end design.
- Implemented a variety of cryptographic algorithms, including Playfair, Affine, and Hill ciphers, to offer robust security measures for both text and file encryption.
- Github link: <https://github.com/althaafka/kripto>

Path Finder

Jan 2024

- Developed a web application to compute the shortest path using A* and UCS algorithms, enhancing route planning with HTML, Bootstrap, and Javascript.
- Github link: <https://github.com/althaafka/path-finder>
- Demo: <https://althaafka.github.io/path-finder/>

Notflix

Oct 2023

- Developed 'Notflix', a film streaming website with customized interfaces for regular and premium users; the regular interface was crafted using monolithic vanilla PHP, supporting essential streaming functionalities and optimized for mobile devices through responsive web design.
- Enhanced the premium user experience by utilizing React TypeScript and Tailwind CSS for the frontend, ensuring a responsive and visually appealing interface across all devices, including mobile. Integrated both REST and SOAP protocols to provide a robust, scalable, and adaptable service.
- Github link: <https://github.com/althaafka/notflix-php-app>, <https://github.com/althaafka/notflix-premium-app>, <https://github.com/althaafka/notflix-rest-service>, <https://github.com/althaafka/notflix-soap-app>

ChatGPT KW

May 2023

- Developed a simplified ChatGPT-style web application using Node.js for backend operations and Next.js with Tailwind CSS for frontend development, focusing on fundamental question-answer interactions.
- Implemented various string-matching algorithms including Knuth-Morris-Pratt (KMP), Boyer-Moore (BM), Regular Expression, and Longest Common Subsequence (LCS) to enhance query processing and response accuracy.
- Github link: <https://github.com/althaafka/ChatGPT-KW>

Treasure Hunting Map

Mar 2023

- Developed a Winform application in C# to navigate mazes in a "Maze Treasure Hunt" game, employing BFS and DFS algorithms to efficiently find treasure locations.
- Integrated a solution to the Traveling Salesman Problem to optimize pathfinding across multiple treasures within the maze, enhancing strategic decision-making and performance.
- Github link: https://github.com/althaafka/Tubes2_lab-altha

Eigen Face Recognition

Nov 2022

- Developed a desktop application capable of matching live camera feeds with database-stored faces, utilizing the eigenface method for high-accuracy recognition.
- Implemented using Python and integrating libraries such as OpenCV, Numpy, Tkinter, and Pillow to ensure robust processing and effective facial feature analysis.
- Github link: <https://github.com/althaafka/Algeo02-21130>

Zerotronics

Aug 2022

- Developed a desktop application capable of matching live camera feeds with database-stored faces, utilizing the eigenface method for high-accuracy recognition.
- Developed 'Zerotronics', a prototype mobile application using Flutter and Dart, designed to streamline electronic waste recycling by connecting users with electronic waste collectors, featuring a basic front-end interface.
- Aimed to facilitate a direct link between consumers and recycling services, enhancing the efficiency of electronic waste disposal and contributing positively to environmental sustainability.
- Github link: https://github.com/althaafka/Milestone02_K19

WORK EXPERIENCE

BTPN Syariah

Full Stack Developer Virtual Intern

Feb 2024 – Mar 2024

- Developed a RESTful API using Golang and the Gin framework during a project-based internship at BTPN Syariah, aimed at managing user profiles and photo collections.
- Implemented comprehensive user functionalities including registration, login, profile updates, photo uploads, and photo management (update and delete operations).
- Integrated JWT for secure user authentication and GORM for efficient object-relational mapping with a MySQL database to ensure robust data handling and security.
- Built and tested API endpoints for all user and photo operations, enhancing the system's functionality and user experience.

ORGANIZATIONAL EXPERIENCE

Himpunan Mahasiswa Informatika (HMIF) ITB

Data and Archive Staff

2023 – Present

- Managed the HMIF database, meticulously maintaining up-to-date records for alumni and current students to ensure accessibility and accuracy.
- Coordinated updates of member data, enhancing the reliability and efficiency of the organization's records system.

Kaderisasi Wilayah STEI-K

Member of Human Resources

Apr 2023 – Jun 2023

- Coordinated updates of member data, enhancing the reliability and efficiency of the organization's records system.
- Managed participant attendance, ensuring active involvement and adherence to event schedules during organizational activities.

TECHNICAL SKILLS

- **Website Development:** Next.js, React, Vue.js, Node.js, Gin, TailwindCSS, Bootstrap, Docker, Laravel
- **Android Development:** Kotlin, Flutter, Retrofit
- **Programming Language:** Python, Javascript, Java, C, C++, C#, PHP, Go, Dart
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Language:** English (Limited Working Proficiency), Indonesia (Native Proficiency)