Muhammad Zaky Yusuf Pahlevi

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SUMMARY

Enthusiastic and dedicated undergraduate student pursuing a degree in Business Information Technology at Bina Nusantara University. Possesses excellent skills in programming, analytical thinking, logical thinking, and research in technology stacks. Experienced in over six programming and developing applications dedicated to enhancing the educational experience at Bina Nusantara University.

EDUCATION

Bina Nusantara University   2021 – 2025

Majoring in Business Information Technology, Information Systems
GPA: 3.78/4.00

EXPERIENCES

Laboratory Assistant – Bina Nusantara University   Sept 2022 – Present

Contract (ended in September 2024)
Responsible for teaching and facilitating classes on:

- Android Development: Conducting comprehensive classes on Android application development utilizing Java, Kotlin, and Flutter.
- Full Stack Development: Providing in-depth instruction on both front-end and back-end technologies. This includes front-end development with HTML, CSS, JavaScript, React, and Next.js, as well as back-end development with Node.js, Express.js, and Laravel. Additionally, covering database management with MySQL and PostgreSQL.
- Network: Offering training on network concepts and tools, including the use of Cisco Packet Tracer.
- Database Management: Teaching MySQL and PostgreSQL, focusing on database design and query optimization.
- Website Development: Guiding students in web development using Laravel for back-end and HTML, CSS, and JavaScript for front-end.

Teaching Assistant – PPTI, Bank Central Asia Tbk   Jan 2024 – Present

Contract (ended in August 2024)
Responsible :

- Taught scientific computing and data mining
- Developed curricula and provided hands-on learning experiences

Private Tutor – Edubby   Jan 2024 – Present

- Instructed students in computer programming, focusing on foundational development.
- Covered key technologies including HTML, CSS, JavaScript, Bootstrap, and Python.

Scholarship Mentor – SASC Bina Nusantara University   Aug 2022 – Jan 2023

- Taught and tutored students in Business Process Fundamentals
- Assisted students in improving their scores in Business Process Fundamentals through targeted instruction and support.

RELEVANT PROJECTS

Binus Bekasi Room Management

Technologies: React, MySQL, REST API, Node.js

- Developed authorization and authentication mechanisms for custom users.
- Implemented logging systems using JSON Web Token.
- Created various application features, including borrowing transactions, listing available rooms, borrowing available rooms, showing borrowing status, and canceling borrowing transactions.
- Integrated the web application with an email channel, enabling admin permissions for sending emails to borrowers.
- Designed and developed the frontend of the web application.
- Deployed the website on a Windows Server IIS, making it accessible within the Binus LAN.
- Successfully developed and deployed the system at Binus University Bekasi, benefiting over 1,000 students and staff by facilitating room borrowing at the Binus Bekasi Main Campus

TraveloHI

Technologies: Next.js, PostgreSQL, Go (Gin framework), REST API, Deep Learning, HTML5 Canvas (Game)

- Built a robust authorization and authentication system.
- Implemented JSON Web Token (JWT) for secure authorization validation.
- Created, updated, and deleted promotional offers, which can be utilized by customers.
- Implemented backend validation mechanisms.
- Developed and integrated OTP code functionality.
- Designed and implemented a slider for images.
- Developed transaction features such as purchasing and adding items to cart.
- Utilized the AlexNet model for deep learning functionalities.
- Integrated a Django backend with a deep learning model.
- Implemented features for changing language and currency.
- Developed dark mode and light mode options.
- Implemented a local e-wallet system.
- Created an email protocol for communication.
- Developed HTML5 canvas games, including multiplayer games with keyboard controller support.
- Designed and implemented a two-player fighting game with health bars and a timer.

NewEgg Website Clone

Technologies: React, REST API, PostgreSQL, JWT

- Developed a full-stack clone of the NewEgg website, including both the web design and application features.

Caddo Catering Online

Technologies: Kotlin, Firebase

- Developed robust authentication and authorization features.
- Displayed a comprehensive list of available catering food options.
- Showcased detailed descriptions and information for each catering food item.
- Implemented an "Add to Cart" feature to streamline the ordering process.
- Created a system to display a detailed list of ordered food items.

Waste Bank Desktop Application

Technologies**:** Java, JavaFX, MySQL

- Developed login, authorization, and user registration functionalities for the desktop application.
- Designed the desktop application interface.
- Implemented desktop features including displaying waste bank data in a table format, an "Add to Cart" feature, deleting waste bank entries and user accounts, and updating waste bank information and user data.

Signfinity

Technologies: Python (eel), Machine Learning, Computer Vision

- Signfinity is an AI desktop application designed to assist in translating sign language. Developed using Python eel, it combines HTML, CSS, and JavaScript with Python as the backend. The application incorporates several machine learning algorithms, including Random Forest, Decision Tree, KNN, SVM, NaiveBayes, and CNN. This project was collaboratively developed by a team.

Job Analysis

Technologies: Python, Flask (backend framework), NextJS, LLM (Gemini), Google Cloud Platform, Natural Language Processing (NLP), Machine Learning

- Job Analysis is application designed to assist IT people CV by summarize their skills and predict their future job. In addition, this application is equipped with courses that can practice and read learning path to achieve their goals. This application includes in exercises course that selected and will summarize the results.

ACHIEVEMENTS

Best SIS Student Achievement 2022, 2023 and 2024

Awarded to outstanding students of the School of Information Systems at Bina Nusantara University during the SIS Appreciation Day 2023. Recipients achieved a GPA above 3.75 and actively participated in various academic and extracurricular activities.

Finalist of Microsoft AI Hackathon 2024

Recognized as a finalist in the Microsoft AI Hackathon 2024, a program held in collaboration with the School of Computer Science. Participants were required to develop AI products using Azure Machine Learning.

SKILLS

- Programming Languages: SQL, Python, Java, PHP, Go, JavaScript, C
- Frameworks/Libraries: Laravel, React, Next.js, Android
- Database Management: MySQL, SQL Server, No-SQL
- Tools/Technologies: Tableau, Google Colab, Eclipse IDE, Visual Paradigm, AWS Cloud, Git, Design Patterns, Docker
- Content Management Systems: WordPress

LANGUAGE

Bahasa Indonesia (Native), English (Working Proficiency), Arabic(Intermediate).