

Gilbert Zaini

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A computer engineering student with a passion for bridging the gap between hardware and software. Having expertise in both IoT development and web development, which is proved by the experiences of successfully designing hardware components and developing various full-stack web applications, with some having integrated AI models.

Experience

PT. Kurnia Ciptamoda Gemilang | February 2024 – June 2024

Web Developer Intern

- Migrated 12 menus from the legacy KCG system to the new web application built with Angular
- Developed the back-end for KCG Helpdesk with Express.js, Sequelize, and MySQL
- Took part in developing the front-end for KCG Helpdesk

Projects

MySalak (EPICS in IEEE) | February 2024 – Present

Lead Software Developer

- Developed the front-end of MySalak PWA with React and ChakraUI
- Developed the back-end server with Express.js, Sequelize, and MySQL
- Developed a Flask back-end to enable access to multiple ML models
- Dockerized the services of MySalak and handled the deployment with a VPS
- Supervise the progress of MySalak website development
- Perform QC on committed codes before continuing into the deployment
- Took part in spatial area mapping using drone
- Labelled the drone dataset
- Trained an image segmentation model with UNet++

NemaAPP | November 2023 – January 2024

Back End Developer

- Developed the application using Flask
- Integrated the AI Model
- Made bash scripts to install and run the application locally in MacOS
- Made batch scripts to install and run the application locally in Windows

DiTag | September 2023 – December 2023

Full Stack IoT Developer

- Designed the hardware wiring
- Took part in assembling the device
- Programmed the ESP32
- Developed the front-end using React.js and ChakraUI
- Developed the back-end using Express.js, Sequelize, MySQL, and WebSocket
- Implemented MQTT communication protocol both on the website and the device
- Deployed the webapp with cPanel

SIKEBAS Pamulang 25 | June 2023 – November 2023

Full Stack Developer

- Administered the MySQL database
- Developed migrations, models, controllers, and middlewares in Laravel

- Implemented data rendering from the database to the view
- Developed the front-end using Laravel Blade templates

Organization

STUKM UMN 2023 | May 2023 – December 2023

Lead Web Developer

- Initialized the website project using React.js, Express.js, and ChakraUI
- Coordinated the execution of the project within the team and with other division
- Distributed the workload to the team members based on the individual's ability
- Developed the voting form and its related APIs
- Handled the authentication, authorization, and session management
- Deployed the website using cPanel

Mr. & Ms. UMN 2023 | March 2023 – November 2023

Web Developer

- Developed “sponsor” and “media partner” page layout
- Developed “candidates” component
- Developed “gallery” layout
- Developed “Pancala” page

Competitions

GEMASTIK XVII | 2024

Software Development Category Finalist

- Competed in GEMASTIK, a prestigious IT competition held by the Ministry of Education, Culture, Research, and Technology of Indonesia
- Placed in the top 20 teams from over 600 teams nationwide in the Software Development qualification stage and advanced to the final round
- Presented MySalak, an application that is developed specifically to address real-world problems, to the judges at the final stage

Education

B. Eng in Computer Engineering

Expected Graduation Date: June 2025

Institution: Universitas Multimedia Nusantara

Current GPA: 3.78/4.0

Skills

Technical Skills: HTML, CSS, JavaScript, TypeScript, PHP, SQL, Python, React.js, Next.js, Laravel, Angular, Express.js, Flask, Bootstrap, Tailwind, ChakraUI, Docker, Git

Soft Skills: Communication, Problem Solving, Critical Thinking, Leadership, Time Management

Language Skills: Bahasa Indonesia - Native, English - Proficient

Certifications

EF SET English Certificate 81/100 (C2 Proficient)

Issuing Organization: EF Standard English Test (EF SET)

Date Earned: October 2023