Gilbert Zaini

Tangerang Regency, Banten, Indonesia | +62 82278678736 | gilbertzaini03@gmail.com | linkedin.com/in/gilbertzaini/

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.

Experiences

Universitas Multimedia Nusantara | August 2024 - Present
Laboratory Teaching Assistant
- Conduct laboratory sessions for the Image Processing course, focusing on the application of image processing techniques and development of image-based machine learning models using Python.

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 server 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 client 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
- Collected aerial image dataset with drone
- Labelled the captured dataset
- Developed an ML segmentation model based on UNet++

NemaAPP | November 2023 – January 2024
Back End Developer
- Developed the application with Flask
- Integrated parasitic and non-parasitic ML model
- Made scripts to install and run the application locally for both Windows and MacOS

DiTag | September 2023 – December 2023
Full Stack IoT Developer
- Designed the hardware schematics
- Programmed the ESP32
- Developed the front-end client with React.js and ChakraUI
- Developed the back-end server with 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 client with Laravel Blade templates

Organizations

STUKM UMN 2023 | May 2023 – December 2023
Lead Web Developer
- Initialized the website project with React.js, Express.js, and ChakraUI
- 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 the website client with Next.js and ChakraUI
- Developed "Sponsor", "Media Partner", and "Pancala" page
- Developed "candidates" section in Home Page
- Developed "gallery" template component

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