

Gilbert Zaini

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A computer engineering student with expertise in both IoT development and software development, which is proved by the experiences of successfully designing hardware components, along with developing computer vision models and various full-stack applications, with some having integrated ML models.

Experiences

Universitas Multimedia Nusantara | August 2024 - January 2024

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

NemaAPP V2 | February 2025 - March 2025

Full Stack Developer

- Developed the application with FastApi, Jinja2, and Tailwind CSS
- Integrated 3 computer vision models for nematode identification
- Implemented pywebview to deliver a clean, native-like application interface
- Packaged the application with PyInstaller for both Windows and MacOS

MySalak (EPICS in IEEE) | February 2024 – January 2025

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++
- Compared the performance of models with different backbones and pretrained weights configuration

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 between the server and the device

SIKEBAS Pamulang 25 | June 2023 – November 2023

Full Stack Developer

- Developed the application with Laravel
- Handled authentication and authorization with Laravel Breeze

- Implemented CRUD on multiple data tables
- Implemented export feature for all reports

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: 3.79/4.0

Skills

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

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

Language Skills: Bahasa Indonesia - Native, English - Proficient

Certifications

TOEIC

TOEIC Score: 970 points

Year Earned: 2025