

ELSHA AMALIA PUSPONEGORO

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Perumahan Pantai Gading, Batam, Kepulauan Riau.

PROFILE SUMMARY

Informatics Engineering student at State Polytechnic of Batam specializing in Web Development and Artificial Intelligence. Proficient in Laravel, Python, and JavaScript with hands-on experience in academic projects. Demonstrates strong time management skills through successful balance of academic and professional commitments.

EDUCATION

State Polytechnic of Batam - Batam

D3 Informatic Engineering

Status : Active Student

2023 - 2026

WORK EXPERIENCE

PT Giken Precision Indonesia | IT Engineer (Internship)

Batam | March 2025 - Nov 2025

- Developed and implemented a production process monitoring system to improve efficiency and data accuracy
- Conducted testing, troubleshooting, and adjustments of machine programs and circuits before implementation on the production line.
- Entered and managed equipment data to support the monitoring system and reporting.
- Assisted with quality control and preventive maintenance of production machines to ensure compliance with safety and quality standards.

PROJECT EXPERIENCE

Internship Project | PT Giken Precision Indonesia

IoT-Based Real-Time Cycle Time Monitoring System

March 2025 - Sep 2025

- Designed and developed a real-time production cycle time monitoring system for screw, function test, and labelling processes.
- Integrated ESP32 microcontrollers with machine sensors and developed Arduino programs to read and transmit machine signals.
- Implemented a Node.js/Express.js backend with WebSocket to receive data and update the web dashboard in real time.
- Created a responsive web interface to visualize cycle time data and identify process bottlenecks.
- Conducted testing, troubleshooting, and adjustments before deployment to the production line.

Project Based Learning | State Polytechnic of Batam

Health and Fitness Evaluator AI

February 2025 - July 2025

- Designed the system architecture, prepared use case diagrams, activity diagrams, and other technical documentation.
- Developed the frontend interface using modern web technologies
- Built and integrated AI models for health and fitness evaluation, including XGBoost Regressor for predictive analysis and NLP components for text input processing.
- Collaborated with the team on testing and implementation to ensure alignment with requirements.
- Created promotional and presentation posters for project showcase.

Automatic Transcription Website

August 2024 - January 2025

- Developed responsive frontend interface using TailwindCSS
- Built backend system for user authentication and AI model management with Laravel
- Implemented and integrated AI models for speech-to-text, diarization, and summarization features
- Created technical documentation including system flowcharts and requirements specifications
- Designed project promotional posters using Canva

- Designed intuitive user interface using Figma
- Developed responsive frontend components with HTML, TailwindCSS, and JavaScript
- Ensured cross-platform compatibility for optimal user experience
- Prepared technical documentation and UML diagrams for system development

E-commerce Website

August 2023 - January 2024

- Compiled comprehensive functional and non-functional requirements documentation
- Designed UML diagrams including use cases, activity diagrams, and class diagrams
- Analyzed and documented business flows and system processes
- Conducted functional testing and created test case documentation
- Collaborated with development team to ensure implementation aligned with specifications

SKILLS

- **Software Skills** : Github, Visual Studio Code, Arduino IDE, Canva, Figma, Draw.io, Microsoft Office.
- **Soft Skills** : Teamwork, Adaptability, Problem Solving.
- **Language** : Indonesia (Native), English (Intermediate).
- **Programming / Framework** : Python, Laravel, React.js, Express.js, Tailwindcss.