# ERVEN IDJAD

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## EDUCATION

**Western Mindanao State University** **August 2020 - May 2024**
*Bachelor's, Computer Science* *Zamboanga City, Ph.*

- Academic award, Best in Portfolio
- OOP, Data Structures, Algorithm, Software Engineering, Database System, Linear Algebra, Discrete Mathematics

## PROFESSIONAL EXPERIENCE

**SparkSoft Solution, Inc.** **Remote**
*Software Engineer* *Oct 2024 – Present*

- Architected and delivered a full-stack attendance management system using Next.js 14, TypeScript, and AWS Amplify, serving 15000+ employees with real-time biometric integration, role-based dashboards, and automated data export capabilities.
- Built enterprise-grade workforce analytics platform with interactive reporting dashboards, geofenced attendance tracking, and multi-format data export functionality, reducing HR processing time by 75% through automated workflows.
- Developed secure ID verification API - Built Node.js/Express backend with QR code decryption, GraphQL integration, and S3 proxy system; implemented security middleware (CORS, rate limiting, SSRF protection); enhanced frontend with dual-parameter authentication requiring encrypted signatures and employee ID validation.

**SparkSoft Solution, Inc.** **Remote**
*Software Engineer Trainee* *June 2024 – Oct 2024*

- Completed an intensive self-learning phase in the first month, mastering key technologies and tools including AWS Amplify, GraphQL, S3 bucket, React.js, Vite, Ant Design, Cursor, and Copilot.
- Demonstrated proficiency by developing a full-stack cat adoption application utilizing the newly acquired tech stack.
- Led the employee POV of the attendance module, delivering a responsive and user-friendly interface.
- Played a key role in migrating legacy React codebase to Next.js, improving maintainability and performance.
- Contributed to the design and implementation of user-friendly interfaces for efficient employee attendance management.

**Knowles Training Institute** **Remote**
*IT Intern* *March 2024 – May 2024*

- Enhanced website security, reducing breaches by monitoring and blocking suspicious IP addresses.
- Improved user experience on company websites using WordPress and Elementor.
- Streamlined troubleshooting and issue resolution processes through effective collaboration with cross-functional teams.

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, PHP, Python, HTML/CSS, C++, Node,
**Technologies/Frameworks:** React.js, Next.js, REST APIs, Fast, Git, AWS Amplify, S3, HuggingFace
**Developer Tools:** Visual Studio Code, Intellij, MySQL,GraphQL, GitHub, Copilot, Cursor, Vibe coding

## PROJECTS

**Smart Entry Gate Security System** | *Python, ttkbootstrap, OpenCV, YOLOv8, Tesseract_OCR, Sqlite3*
*Full Stack Developer -github*

- Led a team and developed an automated security system with 95% accuracy in facial and license plate recognition using OpenCV, YOLOv8, and Tesseract_OCR.
- Implemented advanced computer vision techniques to enhance real-time detection and recognition capabilities.
- Designed an intuitive GUI with ttkbootstrap, resulting in a 30% increase in user satisfaction among security personnel.
- Streamlined security audits by storing visitor logs in SQLite and generating customized reports.

**Quezon City QR ID Verification**| *Node.js, GraphQL, AWS S3, AES Encryption, React, CORS*
*Full Stack Developer - verify-QC-employee-ID*

- Developed a secure ID verification API using AES-encrypted QR codes, GraphQL, and tokenized AWS S3 image proxying.
- Built a CORS-secure frontend verification flow with SSRF protection, input sanitization, and dynamic image serving.
- Integrated API key auth, rate limiting, and request validation to protect against brute force and DoS attacks.
- Delivered a robust real-world solution that streamlined ID validation processes for Quezon City HR.

**AI-Powered Phishing Detection System**| *Python, FastAPI, HuggingFace transformers (DistilBERT).Nextjs, Typescript*
*Full Stack & ML Developer - github*

- Built a phishing detection app using FastAPI backend, Next.js frontend, and a DistilBERT-based ML engine.
- Implemented email parsing, URL checks, and NLP-based text classification for real-time phishing verdicts.
- Designed a modern UI for users to submit and review phishing analysis results.
- Engineered modular APIs for scalable integration with messaging platforms