

Arabela Maris D. Duran

Software Engineer | Full-Stack Developer

Bulacan, Philippines | arabeladuran22@gmail.com | +63 961 471 1768 | arabela.dev

Software Engineer with experience developing full-stack applications and internal business systems focused on workflow digitization and process optimization. Skilled in building scalable software solutions using React, Laravel, and MySQL, with a strong foundation in API development, database design, and system integration.

Experience

Software Engineer (Project-Based)

April 2026 – June 2026

Ardiliex Furniture Mfg.

- Developed an end-to-end custom **Piece-Rate Payroll System** using **React** and **Supabase**, automating payroll computation workflows and reducing reliance on manual spreadsheet-based processes.
- Designed and implemented an **analytics dashboard** that provides visibility into worker production output, payroll history, and operational labor expenditures to support reporting and business decisions.
- Built secure application features including **user authentication**, **role-based access control**, and **mobile-first responsiveness** to ensure usability across mobile and desktop devices.
- Coordinated feature implementation and system improvements through iterative development, documentation, and feedback cycles.

Full Stack Web Developer Intern (Contract)

June 2025 – July 2025

Bulacan State University – Information System and Process Improvement Research Center

- Collaborated within an agile team using to develop an office-wide **Biometric-Based Attendance Management System** and a university-wide **Petty Cash Voucher Management System API**.
- Built and integrated **50+ RESTful API endpoints** using **Laravel** and **MySQL** for the database, supporting user authentication, role management, petty cash workflow processing, and dynamic report generation.
- Supported API testing, validation, and endpoint validation using **Postman**.
- Built **reusable React front-end components** featuring **form validation** and **dynamic data filtering**, improving maintainability and usability across data-intensive interfaces.

Education

Bachelor of Science in Computer Engineering

2022 - 2026

Bulacan State University – Malolos, Bulacan

- **Awards:** Consistent Dean's Lister (2023 - 2026), DOST Merit Scholar (2024 - 2026)
- **Thesis:** MixMate: A Microcomputer-based Automated Concrete Mix Ratio Monitoring and Dispensing System
- **Relevant Coursework:** Web Development, Mobile App Development, Software Design, Database Management Systems, Data Structures and Algorithms, Object-Oriented Programming

Skills

- **Programming Languages:** JavaScript, TypeScript, Python, PHP, Visual Basic .NET
- **Front-end:** React, Next.js, Tailwind CSS, Flutter, HTML5, CSS3
- **Back-end & Databases:** Laravel, MySQL, Supabase
- **Developer Tools:** Git, GitHub, Postman, Vercel, Figma, XAMPP

Projects

SnipURL – URL Shortening Web App

HTML | CSS | PHP | MySQL

- Served as the Lead Developer within a 4-person team, taking ownership of the backend architecture and core application functionalities while contributing to frontend implementation and design decisions.
- Designed the database architecture and implemented user authentication, SMTP email services, custom short links, dynamic QR code generation, and link management features.

Popomart Point-of-Sale System

Visual Basic .NET | MySQL

- Led a 4-person team to develop a custom Point-of-Sale system tailored for a local convenience store.
- Designed and developed the backend infrastructure and functionalities, including user authentication, role-based access control, inventory tracking, real-time cart total calculations, and automated receipt generation.

Portfolio Website

Next.js | TypeScript | Tailwind

- Designed and developed a fully responsive personal portfolio website to showcase project and skills.

- Optimized site performance through efficient asset loading and framework-native optimization to ensure fast loading times and seamless user experience across devices.

MabuhayPH – Flight Booking Mobile App

Flutter | Firebase

- Led a 4-person development team and collaborated with 2 UI designers to build a responsive mobile application for booking domestic flights.
- Engineered end-to-end booking and cancellation workflows, integrated Firebase Authentication, and implemented real-time flight updates.

Re:Boot – Pomodoro Timer Desktop App

Java | JavaSwing

- Partnered in a 2-person team to build a desktop productivity app centered around the Pomodoro technique.
- Developed the core application logic and background execution processes, enabling a persistent timer that runs smoothly when minimized to the system tray.

HitMe! – BlackJack Game

Python | Tkinter

- Developed a desktop Blackjack game with custom visual assets built in collaboration with a UI designer.
- Programmed the core game engine, focusing on accurate card-dealing logic and probability calculations.

Certifications

Development and Basic Concepts of Cloud Computing (2025)

Huawei

Networking Basics (2025)

Cisco Networking Academy

Overview of AI (2024)

Huawei