

Arielito Robles Manoriña

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Portfolio: [aryel.vercel.app](#)

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GitHub: github.com/Arieellls

TECHNOLOGIES

- **Languages:** TypeScript, JavaScript, Visual Basic, PostgreSQL, MongoDB
- **Technologies:** ReactJS, NextJS, React Native, NodeJS, TailwindCSS, StyledComponents, Supabase, Drizzle, Xata, Sass

EXPERIENCE

Freelance Software Developer | Remote / Project-Based

Jan 2024 – Present

- Designed and developed web and mobile applications tailored to client specifications using modern frameworks and tools.
- Collaborated with clients to gather requirements, propose solutions, and deliver high-quality, scalable software on time.
- Integrated third-party APIs and authentication systems to enhance app functionality and user experience.
- Debugged, optimized, and maintained existing codebases for performance and usability improvements.

Research Project | Drone-Based Real Time Detection of Potential Mosquito Breeding Sites

August 2024 – May 2024

- Developed an Android application using Kotlin and TensorFlow Lite for on-device, real-time object detection of mosquito breeding grounds.
- Designed and trained a custom 7-class model using Google Colab with **transfer learning, data augmentation, and Weights & Biases** for visualization.
- Implemented post-processing techniques and UI overlays to display detection outputs with bounding boxes and site classifications.
- Focused on public health impact, optimizing performance for mobile devices to support field researchers and community health workers.

PRMSU Director for Instruction Office | On-The-Job Trainee

June 2024 – August 2024

- Assisted the PRMSU Director for Instructions Office in multimedia production and data management for institutional documentation.
- Captured and edited photos and videos using Adobe Premiere Pro, Photoshop, and Canva.
- Automated repetitive data entry and web scraping tasks with Selenium and Python, improving workflow efficiency.
- Organized digital assets and streamlined internal office processes through basic scripting and automation.
- Tools/Technologies: Adobe Premiere Pro, Photoshop, Canva, Selenium, Python, Excel.

EDUCATION

Bachelor of Science in Computer Science

September 2021 - Present (Graduating June/July 2025)

SELECTED PERSONAL PROJECTS

Barangay Management System | Full Stack Developer | [GitHub URL](#) | [Live URL](#)

A web app that streamlines barangay document requests, approvals, and issuance with secure data handling and easy access for residents and officials.

Sari-Track | Full Stack Developer | [GitHub URL](#) | [Live URL](#)

A Progressive Web Application for Smarter, Faster, and Effortless Inventory Management.