Arielito Robles Manoriña

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Portfolio: aryelll.me **LinkedIn:** linkedin.com/in/arielitomanorina **GitHub:** github.com/Arieellls

TECHNOLOGIES

- **Languages:** JavaScript, TypeScript, Kotlin, Visual Basic
- **Frontend:** React, Next.js, React Native, Tailwind CSS, Styled Components
- **Backend:** Node.js, Elysia.js, tRPC, REST APIs
- **Databases & Geospatial:** PostgreSQL, PostGIS, MongoDB, MapLibre GL
- **Tools & Practices:** QGIS, Linux/Ubuntu Server, Docker, CI workflows, UAT

EXPERIENCE

Software Developer and Researcher
UP Diliman NEC – Lungsod Solutions | June 2026 – December 2026

- Developed **responsive command-center interfaces** for **emergency reporting, SOS monitoring, analytics, tourism, health facilities, and geospatial mapping**.
- Collaborated with the development team to integrate frontend features with **REST APIs, authentication, role-based access, and data synchronization workflows**.
- Created **Figma wireframes and interactive prototypes**, and conducted **UAT sessions** to validate usability and improve workflows based on stakeholder feedback.

Software Developer and Researcher
UP Diliman NEC – Smart METRO | August 2025 – May 2026

- Engineered **map-driven bounding box queries** for interactive pan/zoom operations, reducing redundant API requests by **~80%** and significantly improving geospatial data retrieval performance.
- Built an interactive **geospatial analytics dashboard** to visualize datasets across **health services, tourism, disaster risk management, and urban mobility**.
- Designed a **modular frontend architecture for map layers, legends, and spatial overlays**, improving maintainability and enabling efficient rendering of large-scale geospatial datasets.
- Conducted applied research on geospatial data processing and visualization techniques, contributing to system design decisions and optimizing performance for large-scale spatial analytics.

Freelance Software Developer
Remote | Jan 2024 – May 2025

- Engineered full-stack web and mobile applications using **React, Next.js, React Native, Node.js, and PostgreSQL**, delivering scalable solutions aligned with client requirements.
- Translated business requirements into **technical architectures and application features**, collaborating directly with clients throughout development cycles.
- Integrated **third-party APIs, authentication systems, and cloud services** to enhance application functionality and security.

TECHNICAL EXPERTISE

Infrastructure & DevOps

- Deploy and maintain self-hosted services using **Ubuntu Server, Docker, and Portainer**.
- Configure reverse proxies and secure remote access using **Nginx Proxy Manager, Cloudflare Tunnel, and Tailscale**.

Geospatial Development

- Build interactive maps, layers, and spatial visualizations using **MapLibre GL and QGIS**.
- Process points-of-interest (POI) data and **optimize map-based data retrieval**.

Testing & Development Workflow

- Perform **user acceptance testing (UAT)**, validate application workflows, and document defects.
- Manage source code using **Git/GitHub**, including feature branches and pull requests.

EDUCATION

Cum Laude | Bachelor of Science in Computer Science
Iba, Zambales | President Ramon Magsaysay State University | September 2021 – July 2025