

Luis Vicente Reyes

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WORK EXPERIENCE

Software Engineer

UBS

Feb 2024 — Present

Sydney, NSW

- Improved network data search performance by 120x across 9M+ devices, enabling rapid cross-source data comparison by engineering a purpose-built search indexing Python microservice with Polars and FastAPI.
- Reduced manual QA overhead 32% for a production network automation platform serving 2,000+ users by building a Playwright UI test suite in TypeScript covering 8 critical user workflows and runs in GitLab CI/CD as an automated release gate for pre- and post-deployment validation.
- Enhanced global network visibility across 1,500+ infrastructure nodes and network connections by engineering a 3D network topology visualisation platform using TypeScript, React, Mapbox.
- Expanded a configurable real-time market data workspace by developing a reusable TypeScript library for search and filtering, alongside 20+ modular React panels, enabling code reuse and consistent functionality across the platform.
- Unblocked key features such as historical device revisions and improved system scalability by identifying architectural limitations, then collaborating with DevOps engineers and the Senior Project Architect to design and implement a microservices architecture.
- Revived the abandoned web UI for a data warehousing application and enabled 5+ engineers to contribute to ongoing development and maintenance by identifying a mismatch between its TypeScript/React architecture and the team's Python expertise, then rearchitecting the codebase around an extensible Python-based templating approach.

Full-Stack Developer

IMS Stratus

Feb 2023 — Feb 2024

Sydney, NSW

- Delivered a greenfield task management feature that became the primary workflow for the internal engineering team, replacing manual bug tracking and improving visibility into engineering work through a full-stack Typescript, React, and Express application integrated with existing PostgreSQL database and authentication services.

Software Developer Intern

Akuna Capital

Nov 2022 — Feb 2023

Sydney, NSW

- Reduced AWS S3 storage costs by \$4K/month by engineering a containerised Python scanning tool that processed 10B+ S3 object metadata records to identify duplicate objects and storage optimisation opportunities, then implementing life-cycle configuration changes through Terraform and Atlantis.

PROJECTS

Founder & Software Engineer, Kynect (kynectup.com)

2026

- Developed a cross-platform community management application (iOS, Android, Web) enabling social groups to manage members and events, provisioning cloud infrastructure as code (IaC) with Terraform and deploying production releases to the iOS App Store and Google Play.
- Technologies: TypeScript, React Native (Expo), Python, FastAPI, PostgreSQL, Amazon Web Services (EC2, RDS, S3, Cognito), Terraform.

Creator & Software Engineer, Open Sheets ORM (npmjs.com/package/open-sheets-orm)

2026

- Built and published an open-source TypeScript library for modelling and querying Google Sheets with schemas and generated typed clients, released to npm through automated GitHub Actions CI/CD.

SKILLS

Programming Languages

JavaScript, TypeScript, Python, SQL

Technologies

React, React Native, Express, FastAPI, Docker, Kubernetes, AWS, Terraform, CI/CD

EDUCATION

BSc (Computer Science) / BEng (Hons) (Mechanical Engineering), University of New South Wales

2023

- First Class Honours (82 WAM), AAA Scholarship, IMC × CSESoc × CPMSoc Coding Competition (2022).