KEITH ANGELO TUMANENG

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PROFESSIONAL SUMMARY

Computer Engineer and Full-Stack Developer with 3+ years building production systems across enterprise SSO, real-time IoT pipelines, and offline-first mobile. Delivers end to end: domain modeling, Django and Node backends, React and Flutter clients, Linux deployment. Focused on civic technology - building tools that improve government transparency and public accountability in the Philippines.

PROFESSIONAL EXPERIENCE

Full-Stack Developer · VirtualSpotter · Remote *July 2026 – Present*

- Building FitForms, a multi-tenant SaaS forms platform for fitness studios; built Claire, its AI assistant (Vercel AI SDK, Convex Agent) that edits forms from chat with per-change approval, diffs, and undo.
- Built brand auto-theming from a studio's website or social pages via Brandfetch behind an SSRF-guarded fetch, a franchise-aware theme editor, and an embeddable popup/iframe loader.
- Merged 64 pull requests in three months with a 95% test coverage floor and axe-core accessibility checks.

Full-Stack Engineer (Freelance) · Fireplace · Remote *July 2026 – Present*

- Sole engineer on a map-first condo marketplace for the Philippines: Next.js 16 and Supabase, with consumer, agent, broker, and admin portals secured by Row Level Security across 150+ migrations.
- Shipped Google Maps search, leads, realtime messaging, and tours; built 400+ test suites and resolved production latency from a Vercel/Supabase region mismatch and unoptimized images.

Software Engineer · Komunidad · Taguig City, PH *Apr 2024 – July 2026*

- Built and maintained production Django applications; reduced API response times through query optimization and caching.
- Implemented SAML SSO across internal applications, consolidating authentication into a single identity provider; configured AWS IAM Identity Center for local and staging environments.
- Architected systemd-managed MQTT and SFTP services feeding a Django ingestion pipeline.
- Provisioned and managed Linux VMs across staging and production; delivered features on a weekly Agile sprint cadence.

Science Research Analyst (Software Development) · MMSU · Batac City, PH *Sept 2022 – Dec 2023*

- Built full-stack Django and React applications that improved data accessibility for research workflows.
- Designed and shipped a GIS web application (Node.js/Express, Leaflet, MySQL) mapping renewable energy assets across 100+ sites; live at arec.mmsu.edu.ph.
- Containerized and deployed applications with Docker and Kubernetes on on-premise Linux servers.

PROJECTS

Bantay Gusali	Offline-first building safety inspection tool for local permit offices. Encodes a national building code into 11 structured inspection workflows with role-based access, GPS-tagged photo evidence, on-device SQLite, and PDF report export. MVP, MIT licensed. (PD 1096 compliant.)
SurbolPH	Citizen-facing monitoring tool for public infrastructure projects. Models procurement rules into a 29-item field checklist and automatically flags cost and scope discrepancies at or above 15% for review. MVP, MIT licensed. (References RA 9184, PD 1594, COA circulars.)
Leanmetry	Local-first Flutter fitness app, formerly RecompTracker - Riverpod 3 and Drift/SQLite with Firebase sync through an offline write queue, overload suggestions, personal records, and nearly 200 tests.
Aquatic Life Support IoT	End-to-end IoT system (Raspberry Pi, ESP32, MQTT) for real-time water quality monitoring and automated environmental control.

SKILLS

Languages	Python, JavaScript, TypeScript, Dart
Backend & APIs	Django, Django REST Framework, Node.js / Express, Convex, REST, MQTT, SFTP, Vercel AI SDK
Frontend & Mobile	React, Next.js, Tailwind CSS, Flutter, Leaflet / GIS
Data	PostgreSQL / Supabase, MySQL, SQLite / Drift, MongoDB, Firebase
Infrastructure	Docker, Linux, Nginx, AWS IAM Identity Center, GCP, Vercel, Git
Auth & Hardware	SAML SSO, Tailscale, Raspberry Pi, ESP32