

Jonathan Kongolo Ngoyi

Fullstack Developer · Java & Python Backend · Cross-Platform Mobile · Test Automation

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PROFILE

Fullstack developer with over 12 years of experience across backend development, cross-platform mobile and test automation, now running my own consultancy, Muida Tech AS. My core stack is Java with Spring Boot and Python, and I have shipped mobile apps for Android and iOS since 2013 — Ionic, then React Native, now Flutter. I work the whole chain, from embedded C and MQTT on devices through REST APIs to the front-end that consumes them. Recent work spans three years of Python/Selenium test automation and simulator development at N2 Applied, six and a half years as lead developer on an IoT platform for water infrastructure at Xepto, and three commercial products of my own currently live on the App Store and Google Play.

CORE SKILLS

Backend	Java, Spring Boot, JPA/Hibernate, Maven, Lombok, Python, Node.js, PHP, Symfony, REST API design
Mobile	React Native, Expo, Flutter, Ionic, TypeScript, BLE, NFC, iOS & Android release
Frontend	JavaScript, TypeScript, React, AngularJS, HTML, CSS
Test & QA	Selenium, Python test automation, simulator development, system testing, regression suites
IoT & Embedded	MQTT, embedded C, nRF9160, I2C, BLE, NB-IoT, sensor integration
Cloud & DevOps	Docker, CI/CD, Jenkins, GitLab CI, Azure DevOps, AWS, Firebase, Git
Data	MySQL, relational modelling, Big Data foundations
Ways of working	Agile, full project lifecycle ownership, solution architecture, client-facing delivery

EXPERIENCE

Founder & Lead Developer, Muida Tech AS Oct 2025 – Present · Drammen, Norway

Own consultancy and product studio. Full ownership of architecture, delivery, store release and client relationships.

- **Muinda Collab** — business management platform for African SMEs. 12+ integrated modules covering tasks, accounting, payroll, inventory, team attendance, CRM and multi-channel messaging, delivered as iOS, Android and web apps. Multi-currency (USD/EUR/CDF/NOK) with Mobile Money support; in use by 5+ companies. Meta Tech Provider.
- **Kvitteringsvenn** — receipt management SaaS for consumers and organisations. Photo capture with automatic categorisation, second-level search and shareable collection links. Published on the App Store and Google Play, subscription billing, GDPR compliant.
- **RDC – Diaspora Connect** — community app published on Google Play: news feed, event listings, live exchange rates, market prices and a diaspora business directory.

Tech: React Native, Flutter, TypeScript, Node.js, Python, REST APIs, Firebase, AWS, Docker, CI/CD

IT Consultant, Technogarden — assigned to N2 Applied

Jan 2023 – Nov 2025 · Asker, Norway

Sustainable fertilizer technology: machinery that fixes nitrogen from air into organic substrates.

- Built a simulator of the machine and its sensors, letting the team troubleshoot and optimise performance ahead of real-world deployment without physical hardware.
- Developed and maintained automated test suites in Python and Selenium, replacing manual regression testing and shortening the team's feedback loop.
- Ran system testing, troubleshooting and root-cause analysis across machine functionality and sensor accuracy, ensuring reliability and performance in production units.

Tech: Python, Selenium, simulator development, system testing, CI/CD

Mobile Developer, Joule — freelance engagement

Jun 2024 – Sep 2024

- Delivered a production-ready medical device management app for iOS and Android in four months, covering device pairing and communication over BLE and NFC with cloud sync.

Tech: React Native, Expo, TypeScript, BLE, NFC, cloud integration

Application Developer, Xepto AS

Apr 2016 – Nov 2022 · Norway

Lead developer on CityGuard, an IoT platform for water and wastewater infrastructure monitoring, which grew from an internal project into its own entity.

- Owned the project lifecycle for the CityGuard administration platform — planning, architecture, build, testing and direct customer engagement to shape the product around their needs.
- Migrated the backend from PHP/Silex to Java Spring Boot with JPA, Lombok and Maven as data demands outgrew the original stack, substantially improving efficiency and scalability.
- Designed and built the REST API consumed by web and mobile clients; built the original AngularJS frontend.
- Developed communication protocols for a new hardware board in the final year: embedded C moving sensor data from I2C to the nRF9160, then outward over MQTT to Spring Boot for decoding and storage.

Tech: Java, Spring Boot, JPA, Maven, REST, MQTT, embedded C, nRF9160, BLE, NB-IoT, PHP/Silex, AngularJS, MySQL

Co-founder & Fullstack Developer, Brussels to Night (B2N) — side venture

Jan 2013 – Aug 2017 · Belgium

- Co-founded a nightlife guide app with two peers from HUBrussel, owning every technical decision: architecture, database structure and development methodology.
- Took the product from first commit to market and through to a successful sale in 2017.

Mobile Developer, Søndre Land Municipality

Jul 2013 – Apr 2016 · Norway

- Built the municipality's citizen app in React Native for Android and iOS from one codebase — a digital gateway to local dining, attractions, nature sites and events.
- Developed the Silex/PHP backend and an AngularJS admin panel so municipal staff could keep content current without developer involvement.

Fullstack Developer, Bravie AS

Jan 2015 – Jun 2015 · Copenhagen, Denmark

- Built a creator tool for electronic textbooks, letting authors enrich material with video, animation and interactive tests.
- Integrated WebRTC for real-time video streaming, enabling recorded verbal examinations and video diplomas.

Tech: PHP, Symfony, React Native, WebRTC

Mobile Application Developer, Emixis (now Viasat Connect)

Oct 2013 – Dec 2013 · Belgium

- Developed an Ionic app extending the device tracking capabilities of a telematics and IoT provider, as the practice placement of my HUBrussel exchange semester.

EDUCATION

Kristiania University College (formerly NITH)

Computer Programming · 2011–2014 · Oslo

HUB-KUBrussel

Erasmus exchange, business & technology · 2013 · Belgium

LANGUAGES

French — native / bilingual

Lingala — native / bilingual

Norwegian (Bokmål) — full professional

English — professional working

COURSES & CERTIFICATIONS

Embedded programming coursework — Kristiania University College

Software Architecture Foundations

Java Database Access with Hibernate

Docker Essential Training: Image Creation, Management and Registry

Big Data Foundations: Techniques and Concepts

Learning JavaFX GUI Development

ALSO

Available immediately · open to remote, on-site and commuting

3D printing and product design in Fusion 360