

Brian Moenga

Frontend & Geospatial Engineer

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PROFILE

A highly motivated and dedicated engineering professional with a strong interest in geo-visualization, web development and UI/UX. Well-versed in current web development frameworks and design patterns, with a proven ability to develop responsive, intuitive applications. Reliable, diligent and quick to learn, with a focus on delivering high-performance solutions in real-world environments.

EXPERIENCE

Software Engineer, Frontend · Nexleaf Analytics

Oct 2022 – present

Remote / Los Angeles, CA

- **UI/UX development:** Leading the design and development of complex user interfaces in Angular, working with designers to turn wireframes into working applications.
- **Geospatial integration:** Integrating Leaflet and Mapbox to enhance geospatial features, and building custom map components with geolocation.
- **Mobile development:** Building cross-platform iOS and Android apps with Ionic, including Bluetooth Low Energy (BLE) communication with IoT temperature sensors.
- **State management:** Designing scalable state management with NgRx for both web and mobile apps.
- **CI/CD & optimization:** Implementing CI/CD pipelines (GitHub Actions, Buildbot) to automate testing and deployment, and profiling to resolve performance bottlenecks through lazy loading and code optimization.
- **Mentorship:** Conducting code reviews and mentoring junior developers on best practices and emerging technologies such as Signals and Vite.

Frontend Geospatial Engineer · 8teq Solutions

Aug 2020 – Oct 2022

Nairobi, Kenya

- **Application development:** Developed single-page applications with Angular, TypeScript, RxJS and NgRx.
- **Design implementation:** Turned Figma and Adobe XD designs into pixel-perfect responsive interfaces with SCSS and Bootstrap 5.
- **Backend integration:** Integrated SPAs with Django and Java REST APIs for authentication and data handling.
- **Testing & deployment:** Wrote automated tests with Karma and Jasmine, and deployed through CI/CD pipelines (Docker, Jenkins, GitLab).
- **Project management:** Worked across the full SDLC, from design thinking to Agile Scrum sprints, tracking issues in Redmine and Taiga.

SKILLS	Frontend	Angular, JavaScript/TypeScript, HTML5, CSS/SCSS, Bootstrap 5, Tailwind CSS, RxJS, NgRx, Ionic
	Geospatial & visualization	Leaflet, Turf.js, Three.js, Chart.js, Mapbox, Google Maps JS API
	Backend & APIs	Python (Django), REST API integration
	DevOps & tools	Docker, Jenkins CI, GitHub Actions, Buildbot, Git, GitHub, GitLab, Jira, Confluence, Figma
	Testing & quality	Karma, Jasmine, Prettier, ESLint
ACHIEVEMENTS	• Mobile innovation: Designed and deployed Nexleaf’s first Android app, built with Ionic and Bluetooth Low Energy, for monitoring vaccines in transport. • Scale: Deployed and maintained customer-facing applications used by thousands of people across 15 countries. • Efficiency: Built a custom CSS mini-framework on Grid and Flexbox to speed up UI development.	
EDUCATION	Bachelor of Engineering, Geospatial Engineering Technical University of Kenya · Second Class Honours (Upper Division)	Sep 2014 – Dec 2019
ALSO	Languages	English, Swahili
	Interests	Map making, Rugby, Academic journals, Hiking
	Referees	Available on request