

Peter Mwangi

Developer Experience Engineer — Product Infrastructure
Building high-performance Rust tooling and TypeScript SDKs that multiply developer productivity

Contact Information

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About Me

Developer Experience Engineer specializing in Rust and TypeScript tooling. I design and build CLI tools, SDKs, and infrastructure that remove friction from developer workflows—reducing setup time, simplifying integrations, and enabling teams to ship faster. My work bridges low-level systems performance with polished, product-minded interfaces that developers actually enjoy using. Based in Nairobi, I thrive in remote, async-first engineering teams building for global developer audiences.

Skills

- **Developer Tooling & Systems:** Rust, CLI Development, SDK Design, Developer Experience (DX), Cross-language Integration (Rust ↔ TypeScript)
- **Web & API Development:** TypeScript, Next.js, React, tRPC, REST, GraphQL, Axum, Actix
- **Infrastructure & DevOps:** Docker, Kubernetes, AWS, Vercel, CI/CD (GitHub Actions), RabbitMQ
- **Databases:** PostgreSQL, Neon, MongoDB, MySQL, Redis, sqlx
- **Testing & Quality:** Cargo, Jest, Benchmarking, Profiling

Open Source Developer Tools

create-neon-api — *Rust CLI for scaffolding production-ready Neon APIs*

- Designed a CLI that eliminates hours of boilerplate configuration, scaffolding a secure, database-backed Rust API with Neon PostgreSQL, JWT auth, and **sqlx** migrations in under 30 seconds.
- **DevEx Impact:** Enables developers to move from idea to deployed endpoint in a single sitting, abstracting away complex integration decisions with sensible defaults.
- Published to [Crates.io](https://crates.io) with **908+** downloads, serving as a practical entry point for developers adopting Rust in production backends.
- **Links:** [GitHub](#) | [Crates.io](https://crates.io)

create-rust-on-vercel — *CLI for full-stack Rust + Next.js on Vercel*

- Built a one-command CLI that scaffolds a complete project with a Next.js frontend, serverless Rust API functions, JWT authentication, and database integration—configured for zero-friction Vercel deployment.
- **DevEx Impact:** Lowers the barrier for JavaScript/TypeScript teams to adopt Rust incrementally, providing a production-ready bridge between ecosystems without requiring deep Rust expertise upfront.
- Published to [npm](https://www.npmjs.com/), peaking at **451+** weekly downloads from the JS community.
- **Links:** [GitHub](#) | [NPM](https://www.npmjs.com/)

Experience

Software Engineer

Jul 2024 – Present

SRM eProcurement

Nairobi, Kenya

- **Internal Developer Tooling:** Built and maintained internal CLI tools and shared libraries in TypeScript and Rust that automated repetitive workflows across the engineering team, reducing onboarding time for new developers.
- **Platform Reliability & Performance:** Profiled and optimized microservices and database queries (PostgreSQL, MongoDB), establishing performance benchmarks and improving service response times that directly impacted the developer feedback loop during local development.
- **API Design & Documentation:** Championed clean, typed API contracts using tRPC and TypeScript, creating self-documenting interfaces that eliminated ambiguity between frontend and backend teams.
- **Code Quality Infrastructure:** Led technical discussions and code reviews that established shared coding standards and architectural patterns, essentially building the "developer guidelines" that scaled across a growing team.
- **Rust Adoption Path:** Advocated for and prototyped Rust in performance-critical paths, creating example repositories and internal documentation that lowered the barrier for other engineers to adopt systems programming in our stack.

Frontend Developer (Contract)

Mar 2024 – Jun 2024

Payd HQ

Remote

- **Internal Developer Tools:** Designed and built internal dashboards and workflow automation tools with Next.js and TypeScript that replaced manual operational processes, directly increasing team productivity.
- **Integration Developer Experience:** Collaborated with Web3 backend engineers to design clean, typed integration layers between blockchain systems and the frontend, reducing integration friction and undocumented edge cases.
- **UI Component Library:** Created reusable, accessible UI components with Tailwind CSS that were adopted across multiple internal projects, reducing redundant frontend work and improving consistency.
- **Feedback-Driven Iteration:** Improved platform UX by analyzing user feedback and analytics, then translating insights into actionable interface improvements—a product-minded approach to the user (both internal and external) experience.

Frontend Developer

Oct 2023 – Jan 2024

Ave Connect

Remote

- **API Contract Collaboration:** Worked directly with backend teams to co-design efficient, well-typed tRPC API contracts, ensuring the frontend consumed data in a predictable, error-resistant way—reducing integration bugs across sprints.
- **Reusable Component Infrastructure:** Built and maintained a shared component library with React, Next.js, and ShadcnUI that served as the foundation for multiple features, accelerating development velocity for the broader team.
- **Developer Documentation:** Documented component usage patterns and API integration guides for internal use, reducing ramp-up time for new frontend hires joining the project.
- **Performance & Accessibility Standards:** Established performance benchmarks and accessibility checks as part of the component review process, creating guardrails that improved the end-user and developer experience.

Web Developer Intern

Feb 2023 – Jul 2023

KCA University

Nairobi, Kenya

- **Automation & Self-Service Tooling:** Built an AI-powered chatbot that automated responses to frequently asked questions, reducing front-office inquiry volume by over 50%—a self-service tool that removed manual friction for both staff and students.
- **Infrastructure & Environment Setup:** Configured Ubuntu Apache servers and network infrastructure, including documenting setup procedures that allowed non-technical staff to manage basic maintenance tasks independently.
- **Accessibility-First Development:** Contributed to an accessible website redesign, advocating for standards that made the university's digital tools usable by a wider audience.

Education

Bachelor of Science in Software Development

Sep 2021 – Nov 2026

KCA University

Nairobi, Kenya