

# Peter Mwangi

*Bachelor of Science in Software Development  
KCA University, 2026*

## Contact Information

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**Address:** Ruaraka, Nairobi  
**Phone:** 0707440107  
**Email:** kylepeterkoine4@gmail.com  
**LinkedIn:** [linkedin.com/in/petermwangi01/](https://www.linkedin.com/in/petermwangi01/)  
**Github:** [github.com/peterkyle01](https://github.com/peterkyle01)  
**Website:** [peterkyle01.me](https://peterkyle01.me)

## About Me

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Passionate software engineer experienced in building full-stack web applications and distributed backends using Python and TypeScript. Skilled in developing REST/GraphQL APIs, Python microservices, and AI-powered chatbots. Actively improving algorithmic problem-solving and data-structure skills to qualify for global, high-impact engineering roles.

## Skills

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- Web & Backend Development (Python, FastAPI, Flask, TypeScript, React, Next.js, Tailwind CSS)
- Microservices & APIs (FastAPI, Flask, tRPC, REST, GraphQL, Docker, Kubernetes)
- Databases (PostgreSQL, MongoDB, MySQL, Redis)
- AI & Automation (LangChain, Python chatbots, CLI tooling)
- Infrastructure & DevOps (Docker, RabbitMQ, AWS, Azure, Vercel, Kubernetes)
- Testing & Tools (Pytest, Jest, Git/GitHub CI)

## Projects

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**create-neon-api** — *A CLI tool for Rust developers to make APIs*

- Developed a CLI tool in Rust to bootstrap production-ready backends, integrating a Neon PostgreSQL database, JWT authentication, and `sqlx` migrations to accelerate project setup.
- Published the tool to [Crates.io](https://crates.io), enabling fellow developers to initialize new projects in seconds.
- **Links:** [GitHub](#), [Crates.io](#)

**create-rust-on-vercel** — *A CLI tool for Next.js and Rust to host on vercel*

- Created a CLI tool to scaffold Next.js projects with a serverless Rust backend function, optimized for easy deployment on Vercel.
- Streamlined the setup for full-stack applications that combine a JavaScript frontend with a high-performance Rust backend.
- Published the package to [npm](https://www.npmjs.com/) for easy community access and use.
- **Links:** [GitHub](#), [NPM](#)

## Experience

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### Software Engineer

*Jul 2024 – Present*

*SRM eProcurement*

- Contribute to scalable web applications and microservices using Python (FastAPI, Flask) and TypeScript with MongoDB and PostgreSQL.
- Build and maintain AI-powered chatbots and automation tools to enhance user engagement and internal workflows.
- Collaborate with designers to translate UI/UX into responsive, high-performance interfaces using React and Next.js.
- Optimize application performance through profiling, code splitting, and best-practice implementation for faster load times and improved UX.
- Advocate for clean architecture and reusable components through code reviews and team discussions.

### Frontend Developer Contract

*Mar 2024 – Jun 2024*

*Payd HQ*

- Improved UI/UX using TypeScript and Tailwind, based on direct feedback from end users.
- Built internal tools with Next.js and Python scripts to improve developer experience and streamline operations.
- Collaborated with Web3 engineers to integrate blockchain-powered backend systems.

### Frontend Developer

*Oct 2023 – Jan 2024*

*Ave Connect*

- Designed and developed user-centric web apps using React, Next.js, ShadcnUI, and tRPC.
- Collaborated with backend teams building Python/TypeScript services to ensure efficient API integration and high conversion rates.
- Delivered clean, reusable components optimized for performance and accessibility.

### Web Developer Intern

*Feb 2023 – Jul 2023*

*KCA University*

- Built an AI-powered school chatbot using Python and LangChain to handle FAQs and reduce front-office traffic by over 50%.
- Configured switches using SolarWinds and assigned IPs to VoIP phones.
- Installed and configured Ubuntu Apache servers; contributed to school website redesign with accessibility-first principles.

## Education

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### Bachelor of Science in Software Development

*Sep 2021 – Nov 2026*

*KCA University*