

# EMMANUEL KIPTOO

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## Summary

I am a fourth-year Software Engineering student at Kirinyaga University, Kenya, passionate about technology, problem-solving, and innovation. I have hands-on experience in full-stack development, working with React, TypeScript, Node.js, and PostgreSQL. I enjoy building scalable web applications, optimizing databases, and implementing secure authentication systems.

I am eager to expand my technical skills, explore emerging technologies, and contribute to impactful projects. I believe that continuous learning and collaboration are key to driving innovation and making a meaningful impact in the tech industry

## Experience

May 2023 - Aug 2023	<div><div>Networking Intern</div><div>Tenwek Mission Hospital</div><ul style="list-style-type: none"><li>Configured and maintained LAN/WAN network infrastructure in hospital facilities.</li><li>Implemented network security protocols and troubleshoot connectivity issues.</li><li>Assisted in IP address management, router/switch configuration, and network monitoring.</li></ul></div>
May 2024 - May 2024	<div><div>Software Development Intern</div><div>Teach2Give</div><ul style="list-style-type: none"><li>Developed full-stack web applications using React, TypeScript, and Node.js.</li><li>Built and optimized database schemas using Drizzle ORM and implemented RESTful APIs.</li><li>Collaborated in agile development teams utilizing Git for version control and CI/CD pipelines.</li><li>Gained proficiency in JavaScript frameworks, responsive design principles, and test-driven development.</li><li>Created user-focused interfaces with modern front-end technologies while maintaining clean, documented code.</li><li>Participated in code reviews and contributed to multiple production-ready projects that improved organizational efficiency.</li></ul></div>

## Education

2021 - 2025	<div><div>kirinyaga university</div><div>Undergraduate (Ongoing) • B.Sc. (Bachelor Of Science) • Software Engineering</div><ul style="list-style-type: none"><li>Pursuing a Bachelor of Science in Software Engineering with a focus on full-stack web development, database management, and software architecture.</li><li>Gained hands-on experience in TypeScript, React, Node.js, PostgreSQL, and cloud deployment.</li><li>Engaged in projects involving RESTful API development, CI/CD pipelines, and Agile methodologies.</li></ul></div>
2017 - 2020	<div><div>Chebilat Boys High School</div><div>Secondary Education • Kenya Certificate Of Secondary Education (KCSE) Percentage - 66%</div><ul style="list-style-type: none"><li>Completed secondary education at Chebilat Boys High School with a B grade (66 points) in the Kenya Certificate of Secondary Education (KCSE).</li><li>Gained critical thinking skills, time management abilities, and teamwork experience through academic pursuits and extracurricular activities</li></ul></div>

## Certification

### My Certications

[Certificate Link](#)

Foundation of C# – MLSA Kirinyaga

- Covered the fundamentals of C# programming, including syntax, OOP concepts, and application development.

JavaScript, Node.js, and Express – DevTown

- Explored backend development with Node.js and Express, including REST API creation and server-side scripting.

React.js from A to Z – DevTown

- Comprehensive training on React.js, covering component-based architecture, state management, and hooks.

Cybersecurity and Emerging Technologies Awareness – ICT Authority of Kenya

- Learned key cybersecurity principles, threat mitigation, and the impact of emerging technologies on security.

Software Development – Teach 2 Give


- Hands-on experience in full-stack development, software lifecycle, and best coding practices.

## Skills

- Full Stack Development
- Backend Development
- Programming Skills
- IT Service Management

## Projects


### Car Vehicle Rental System

 May 2024 – Jun 2024

 [Project Link](#)

- A car rental website that helps customers to book vehicles based on their choice then preferences and allows them to view their bookings


### Automated Public Seat Booking System

 Jan 2025 – Mar 2025

 [Project Link](#)

- The Automated Public Seat Vehicle Booking System is a web-based platform designed to streamline seat reservations for public transportation, including buses, trains, and shuttles. It enhances efficiency by allowing users to check seat availability, book seats in real-time, and manage their reservations seamlessly

### Restaurant Api

 Jun 2024 – Dec 2024

 [Project Link](#)

- The Restaurant API is a backend service designed to manage restaurant operations, including menu management, orders, reservations, and customer interactions. It provides RESTful endpoints for seamless integration with web and mobile applications.