

# EPHRAIM LOCH JUMA

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## EDUCATION

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### **COMPUTER SCIENCE - DEGREE**

Strathmore University

Graduation - July 2026

Coursework: Data structures & algorithms, Databases (SQL), Object Oriented Programming-Java/C++, Linux, Statistics, operating systems, Artificial Intelligence, Cryptography, Microprocessors.

## EXPERIENCE

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### **UI/UX DESIGNER**

Pawanax Ltd - Nairobi Kenya

MAY 2024 – PRESENT

I contribute to user interface and user experience design aimed at enhancing the customer experience when seeking medical assistance through our website and mobile application. My responsibilities include:

- Making improvements to the UI of the current system to streamline the customer experience during medical assistance.
- Assisting in designing new features for the mobile app to help improve the application.
- Adding new features to the website to enhance its capabilities and usability.

Technologies and tools used include:

- Figma .NET framework, Webflow, TypeScript, Tailwind CSS.

## SKILLS

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- JavaScript, C++ .NET,
- HTML, CSS, React.js, Vue.js, Electron.js
- Node.js, Express.js, RESTful APIs
- SQL (MySQL, PostgreSQL), MongoDB, Firebase
- Microsoft Azure

## PROJECTS

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### **UniRide web application**

Developed a comprehensive Cab-hailing web application aimed at facilitating the transportation of university students to and from campus. The platform serves as a tool for both cab drivers and students to have an easy and affordable transportation means with guaranteed safety.

Functionality:

- **Student-User Portal:** Allows the student to book a ride(s) depending on the number of days of the week they want to be transported and the location.
- **Driver Portal:** Allows the driver to accept ride requests and transport the students to their destination with ease.
- **Authentication:** Implements login authentication for user accounts, ensuring secure access to personalized features and data.
- **Payment Integration:** Integrates with a secure payment gateway to facilitate seamless and secure transactions. Customers can securely complete transactions using various payment methods, enhancing convenience and trust.
- **Admin Portal:** Provides administrators with tools to manage rides, users and analytics

Built With:

**Frontend:** Developed using **Express.js** for dynamic user interfaces and enhanced browsing experience.

**Backend:** Built with **Node.js** and **Express.js** to handle server-side logic, **user authentication**, and **API endpoints**.

**Database:** Utilized MySQL for storing user details, ride details, transaction details, and analytics, ensuring scalability and flexibility.

**API Integration:** **Custom APIs** were developed to facilitate communication between frontend and backend components, including integration with the payment gateway. Daraja API was also used to facilitate the payment facility.