

Ridwan Farhan

Software Engineer

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Education

United States International University Africa (USIU)	Nairobi, Kenya
BSc Software Engineering	09/2022 - 01/2026
Aga Khan High School Nairobi	Nairobi, Kenya
Kenya Certificate of High School Education (KCSE)	09/2016 - 07/2020

Experience

Research Assistant	Maseno University	07/2024 - 07/2025
<ul style="list-style-type: none">Contributed to a Gates Foundation-funded initiative to develop a high-quality corpus of text and voice data for several African languages spoken in Kenya, supporting linguistic research and AI development.Designed and curated prompts to ensure diverse and contextually relevant data collection for speech and text analysis.Reviewed and validated large datasets of transcribed speech and written text to enhance accuracy, consistency, and linguistic integrity. Assisted in generating voice and text data, helping to build a robust multilingual dataset for future natural language processing (NLP) applications.		
Software Engineer Intern	Nova Care Center	04/2025 - Present
<ul style="list-style-type: none">Supported the maintenance and daily operations of a health management system used to track developmental progress for autistic children.Restored and updated years of missing client data through the system interface, ensuring data accuracy, completeness, and consistency across modules.Added and configured client goals and milestones within the system to support progress monitoring by therapists.		

Software Engineering Projects

Platform Agnostic File Sharing System Application (PAFSS)
<ul style="list-style-type: none">Developed a peer-to-peer file sharing system using Flutter with full cross-platform support.Implemented WebRTC-based communication for direct, real-time file transfers without external servers.Ensured secure, fast, and scalable sharing through efficient signaling, connection handling, and transfer protocols.
Online Examination System
<ul style="list-style-type: none">Developed a Java-based Online Examination System with a JavaFX client and Spring Boot backend.Implemented secure login, timed exams, and auto-submission features to prevent cheating.Integrated H2 for testing and MySQL for production, ensuring smooth database switching via Spring profiles.
RTFM Helper
<ul style="list-style-type: none">Designed and built a tool to streamline access to technical documentation, reducing lookup time for developers.<ul style="list-style-type: none">Implemented efficient text processing and retrieval using Python, NLTK, BeautifulSoup,Improved workflow for developers by automating manual documentation searches.
Multi Tenant Property Management System
<ul style="list-style-type: none">Developed a database-per-tenant backend with dynamic PostgreSQL database creation.Implemented JWT authentication with tenant-aware routing and role-based access control.Built core modules: Tickets, Payments, Announcements, User Management.Implemented master/tenant JPA configs, dynamic datasource loading, validation, and global error handling.

Awards and Honors

Deans List, School of Science and Technology	2022-2023
Finalist L'Oréal BrandStorm Competition (Kenya)	2025

Skills

Programming Languages: C/C++, Dart, Java, Python, Golang
Tools and Frameworks: Bash, zsh, Linux, Git/GitHub, JavaFX, SpringBoot, Gradle, VIM (nvim), Flutter, Figma, Jenkins, PostMan, JWT, WebRTC, Postgres, MySQL
Languages: English (Excellent), Swahili(Proficient), Arabic(Basic)