



# HIRWA CLEMENT RHODIN

Software Engineer

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## PROFESSIONAL SUMMARY

Passionate Software Engineering student with proven business acumen and technical expertise in full-stack web and mobile development. Experienced in end-to-end software development across web and mobile platforms, with expertise in Flutter, React, and backend technologies.

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## TECHNICAL SKILLS

**Programming Languages:** C, C#, Java, JavaScript/TypeScript, Python, Dart

**Web Development:** ASP.NET Core, Spring Boot, React, Vite, Tailwind CSS, HTML5, CSS3

**Mobile Development:** Flutter, Cross-platform App Development, Native Mobile UI/UX

**Database Technologies:** MySQL, PostgreSQL, MongoDB, Entity Framework Core, SQLite, SQL Server, Oracle

**Development Tools:** Git, GitHub, Docker, JWT Authentication, RESTful APIs, Firebase

**Specialized Libraries:** iTextSharp, MailKit, Recharts, Framer Motion, Firebase, TOTP (java-otp)

**Core Concepts:** Data Structures & Algorithms, OOP Design, Clean Architecture, MVVM, State Management

**Methodologies:** Agile Development, Test-Driven Development, CI/CD Practices

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## EDUCATION

[Bachelor of Science in Software Engineering](#)

**Adventist University of Central Africa (AUCA)** | Kigali, Rwanda

2022 – Present | Expected Graduation: 2026

[Advanced Level Certificate | Mathematics, Chemistry & Biology](#)

**Institut de Formation Apostolique de Kimihurura (IFAK)** | Kigali, Rwanda

2018 – 2021 | 🏆 Top Student of Class

[Ordinary Level Certificate | General Science Program](#)

**Petit Séminaire Saint Vincent de Ndera** | Kigali, Rwanda

2015 – 2017 | 🏆 Top List of Promotion

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## PROFESSIONAL EXPERIENCE

### Sales & IT Manager

**Family Retail Business** | Kigali, Rwanda

*August 2021 – Present*

- Transformed business operations by implementing comprehensive sales tracking and inventory management systems
  - **Achieved 80% revenue growth**, increasing daily sales from \$100 to \$250 through strategic process optimization
  - Automated critical business processes using database solutions and spreadsheet macros, reducing manual workload by 40%
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## KEY PROJECTS

### Bus Management System

**Technologies:** ASP.NET Core, Entity Framework, SQL Server

- Architected comprehensive ticketing platform with end-to-end booking workflow
- Implemented secure authentication system with JWT tokens and TOTP two-factor authentication
- Developed automated PDF ticket generation and email delivery system using iTextSharp and MailKit
- Built real-time seat availability tracking with role-based access control

### Car Wash Management Frontend

**Technologies:** React, Vite, Tailwind CSS

- Created responsive CRUD interfaces for comprehensive business management (employees, services, appointments, payments)
- Developed interactive dashboard with data visualization using Recharts library
- Implemented advanced pagination and search functionality for optimal user experience
- Integrated seamless API for Backend and Frontend communication for real-time data management

### Flutter Mobile Applications

**Technologies:** Dart, Flutter, Firebase, SQLite

- Developed cross-platform mobile applications with responsive UI and native performance
- Implemented state management solutions and integrated backend APIs for real-time data synchronization
- Built offline-capable apps with local database storage and cloud synchronization

### Python Learning Automation System

**Technologies:** Python, Data Analysis Libraries

- Curated optimized learning resources spanning web development, data analysis, and machine learning
  - Structured progression path from basic syntax through Django/Flask and scikit-learn frameworks
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## CERTIFICATIONS & LANGUAGES

### Certifications

- ALX AICE AI Career Essentials Certificate
- Advanced Network Operations Certificate
- Duolingo English Proficiency Certificate
- Introduction to Network Operations Certificate
- Network Essentials Certificate
- Operating Systems Basics

### Languages

- **Native:** Kinyarwanda, Kirundi
  - **Professional:** English, French
  - **Learning:** Spanish, Swahili
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## ADDITIONAL QUALIFICATIONS

**Cross-Platform Development** – Proficient in building applications that work seamlessly across web and mobile platforms

**Problem-Solving Expertise** – Strong analytical skills with experience in algorithm optimization and system design

**Team Collaboration** – Experience mentoring peers and working in collaborative development environments

**Open Source Contributions** – Active contributor to community projects and collaborative development

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