Ahmed Salah Bube

Full Stack Engineer | Backend and API Development (Frappe, PHP) — enterprise web applications, REST APIs and system integration

Mogadishu, Somalia (time zone EAT, UTC+3) · bube.dev@gmail.com · LinkedIn · Portfolio · GitHub

Professional Summary

Full Stack Engineer with 4+ years of experience building enterprise web and mobile platforms for education, business management and Hajj and Umrah services, specializing in Frappe/ERPNext and PHP (CodeIgniter) backends and REST API integration. Upgraded Schoolly from CodeIgniter to Frappe with iOS and Android apps, and migrated three years of legacy data (~10,000+ student records) for Hoygaxamar, one of the largest schools in Somalia, with zero data loss. Mentors 3+ junior developers and leads code reviews. Based in Mogadishu (EAT, UTC+3); available for remote work.

Core stack: Frappe · ERPNext · PHP (CodeIgniter) · RESTful APIs · JavaScript (ES6+) · React · Vue.js · Flutter · MySQL · Linux

Core Skills

- **Backend and APIs:** Frappe Framework, ERPNext (custom app development), PHP (CodeIgniter), RESTful API design and integration, JWT authentication, payment and SMS gateway integration, MySQL, performance optimization
- **Frontend:** HTML5, CSS3, JavaScript (ES6+), React, Vue.js, TypeScript, Tailwind CSS, Progressive Web Apps
- **Mobile:** Flutter (WebView integration with POS hardware printing), Capacitor (iOS and Android), push notifications (OneSignal)
- **Data Migration:** legacy CodeIgniter to Frappe migration of multi-year school data
- **Enterprise Platforms:** ERP, CRM, POS, inventory, accounting and HR systems; school management (admissions, fees and billing, transport, hostel, attendance, exams); multi-tenant SaaS architecture
- **DevOps and Cloud:** DevOps and cloud computing fundamentals (IBM-certified), Linux (Ubuntu), server tuning (OPcache, indexing)

- **Engineering Practices:** code review, mentoring, debugging, software engineering fundamentals (IBM-certified)
- **Additional:** Java (taught undergraduate lab sessions); Adobe Photoshop, Illustrator and InDesign

Professional Experience

Full Stack Engineer — Yooltech

Mogadishu, Somalia · August 2022 – Present

A leading IT solutions provider established in 2015, delivering intelligent, end-to-end technology solutions from ideation and design to development and deployment. Engineering team of 20+ professionals.

- Upgraded Schoolly from a PHP (CodeIgniter) application to a Frappe-based platform, delivered as a custom app (Etschoolly) with iOS and Android mobile apps for students, parents, teachers and drivers. Modules cover admissions, fee billing with auto-invoicing, transport, hostel, timetabling, biometric attendance, exams and report cards, and reporting.
- Migrated three years of legacy CodeIgniter data (~10,000+ student records) for Hoygaxamar, one of the largest schools in Somalia, to the new Frappe platform with zero data loss and minimal downtime; the school now runs live on it.
- Led end-to-end development of three enterprise platforms: Schoolly (2023–present), an education management system covering student enrollment, class assignments, exams and fee collection; EasyTouch (2022–present), a business management system covering CRM, POS, inventory, accounting, HR, e-commerce and real-time analytics; and Cabqari (2022–2024), Hajj and Umrah management software for travel agencies.
- Designed and implemented RESTful APIs that integrate web applications, mobile apps and third-party services.
- Built a Flutter mobile application, embedded in EasyTouch through WebView, that prints receipts directly to POS hardware and makes the customer workflow more reliable.
- Tuned servers and applications (OPcache, database indexing, session cleanup), cutting API response times and page load times by ~40%.
- Mentor 3+ junior developers and lead code reviews to uphold coding standards and best practices.

Technologies: Frappe Framework, ERPNext, PHP (CodeIgniter), RESTful APIs, MySQL, JavaScript (ES6+), React, Vue.js, TypeScript, Flutter, Capacitor, OneSignal

Lecturer Assistant, Java Programming — Jamhuriya University of Science & Technology

Mogadishu, Somalia · 2022

- Taught Java programming to undergraduate students through practical lab sessions.
- Provided debugging support and evaluated student assignments.
- Developed hands-on coding exercises that reinforce core programming concepts.

Graphic Designer — Fiin Digital Print & Media Design

Mogadishu, Somalia · 2021

- Created marketing collateral, brand identities and promotional graphics using Adobe Photoshop, Illustrator and InDesign.

Selected Projects

- **Etschoolly — custom Frappe/ERPNext app for school administration**, the platform Schoolly now runs on. Built the student login and profile API, a transport module that supports multiple vehicles per route and a student discount feature; designed a drag-and-drop ID card designer with PDF output.
- **EasyTouch — business management system (Yooltech, 2022–present).** Covers CRM, POS, inventory, accounting, HR, e-commerce and real-time analytics, with an integrated Flutter mobile printing solution that prints receipts directly to POS hardware.
- **Cabqari — Hajj and Umrah management software for travel agencies (Yooltech, 2022–2024).** Built to streamline agency operations for Hajj and Umrah services.
- **QR-Code Based Exam Hall Authentication and Attendance System with Temperature Sensing Using IoT** (university graduation project, team-based, March–October 2022). Web and mobile application that authenticates students at exam halls by QR code and tracks attendance, with IoT temperature sensing.

Education

Bachelor's degree, Computer Science — Jamhuriya University of Science & Technology, Mogadishu, Somalia · September 2018 – August 2022

Certifications

- Introduction to Cloud Computing — IBM, November 2024
- APIs in PHP: from Basic to Advanced — Udemy, November 2024
- DevOps Basics for Everyone — IBM, October 2024
- Software Engineering Basics for Everyone — IBM, September 2024

Honors and Awards

- **Best Innovation Project (2022)** — Jamhuriya University of Science & Technology, for the team graduation project: a QR-code based exam hall authentication and attendance system with IoT temperature sensing.
- **Best Employee of the Year (2023)** — Yooltech.

Languages

Somali (Native) · English (Full Professional Working Proficiency)