

# AHMED ABDELAZIM

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## Summary

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Motivated and results-driven **Software Engineer** with over 3 years of hands-on experience in building scalable, responsive, and high-performance web applications across the **fintech and e-commerce sectors**. Proficient in **PHP, Laravel, Vue.js, React**, with a strong foundation in **Object-Oriented Programming, MVC, Microservices, and SOLID principles**. Experienced in designing and maintaining robust backend systems and dynamic front-end interfaces, with a proven track record of integrating **third-party APIs and payment gateways** such as **Opay, Geidea, and Fawry, XPI, mineSec**. Adept at working with **RabbitMQ**, building **microservices**, and creating **secure, efficient infrastructures** for API management, payout processing, and financial transaction workflows. Successfully implemented **blockchain-inspired architectures** (hash-chained transactions, Merkle trees, Ed25519 cryptography) for **Saturn a corporate payout management system** that supports **scheduled, on-time, and recurring payouts** with compliance-grade audit trails. **Certified Professional Scrum Master (PSM I)** with strong experience in **Agile/Scrum environments**, effective in cross-functional collaboration, clean code practices, testing, and continuous delivery. Currently pursuing a **Computer Science degree at Cairo University** to deepen technical expertise and contribute to innovative, large-scale platforms.

## Key Strengths

- Full-stack development expertise with modern technologies (**Tailwind CSS, RabbitMQ, SCSS**).
- Proven ability to deliver impactful **fintech and API solutions** (wallets, invoicing dashboards, payment systems, API gateways).
- Hands-on experience in **payout management systems** and **blockchain-based financial transaction security**.
- Effective collaboration with cross-functional teams for seamless execution and integrations.
- Strong problem-solving mindset, ensuring **exceptional user experiences, regulatory compliance, and robust system performance**.

## Technical Skills

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**Languages/Frameworks:** PHP (8+), Laravel, JavaScript (ES6+), Vue.js, React, jQuery, AJAX HTML5, CSS3, SCSS, Tailwind CSS, Bootstrap

**Backend & Databases:** MySQL, PostgreSQL, SQL Server, Redis, RESTful APIs, API Gateway Management, Multi-tenant Architectures, Microservices, Event-Driven Design, RabbitMQ

**Blockchain & Security:** Blockchain-inspired systems (hash-chains, Merkle trees, checkpoints), Cryptography (Ed25519, SHA-256, libsodium), Immutable audit trails, API security, Wallet & payout management systems

**Tools & DevOps:** Git/GitHub, NGINX, VS Code, PHPUnit (testing), Linux CLI, Caching & Performance

**Concepts & Methodologies:** Object-Oriented Programming (OOP), MVC, SOLID Principles, Design Patterns, Distributed Systems, Concurrency Control, Queues, Agile/Scrum (**Certified Professional Scrum Master – PSM I**), Algorithms & Data Structures

# Experience

## MIMOCODES Cairo-EG

July 2022 – Present

### Software Engineer

Mimocodes is a digital innovation agency based in Cairo, Egypt, specializing in web and mobile app development, corporate branding, and FinTech solutions with a focus on high-security standards. They have worked with notable clients, including Geidea, Fawry, Aman, and Opay, among others. Mimocodes delivers user-friendly digital experiences across iOS, Android, Windows, and HTML5 platforms.

- Designed and implemented **responsive, scalable web applications** and **UI dashboards** using **PHP (Laravel), Vue.js, React, HTML, CSS, Tailwind**.
- Developed and maintained **secure backend systems** with **MySQL, RabbitMQ, microservices**, and efficient database practices.
- Built **payment and payout solutions**, integrating gateways (Opay, Geidea, Fawry) and ensuring smooth callbacks, monitoring, and troubleshooting.
- Contributed to **Saturn ,a blockchain-inspired payout management system**, implementing **scheduled, on-time, and recurring payouts** with wallet validation, **hash-chained transactions**, and **immutable audit trails**.
- Assisted in the development of **API management systems** with robust **authentication, authorization, and monitoring**.
- Enhanced **merchant and invoicing dashboards**, optimizing **transaction flows, real-time updates, and distributed processing with RabbitMQ**.
- Delivered solutions aligned with **financial audit requirements**.
- Collaborated in **Agile/Scrum teams (PSM I certified)**, contributing to sprints, code reviews, QA processes, and cross-functional projects.

## etisalat e& Cairo-EG

February 2022 – July 2022

### Customer Care

- Handled high-value prepaid and postpaid customer queries.
- Troubleshoot technical issues with network and data services.
- Improved customer satisfaction through clear communication and problem resolution.

# Projects

- **Saturn Payout Management System** | Laravel, MySQL, Queues, Cryptography ,Reverb ,React  
Developed a blockchain-inspired **payout management system** for corporate financial operations
  - Integrated **wallet-based controls** with balance validation, locking, and fraud detection.
  - Leveraged **blockchain principles** (hash-chained transactions, Merkle tree proofs, Ed25519 digital signatures) to ensure **tamper-proof payouts**.
  - Developed **checkpoint verification** for 90% faster wallet state validation.
  - Implemented **asynchronous job processing** for high-volume payouts and automated scheduling.
  - Delivered **immutable audit trails** and **secure archival** to support compliance and reporting
  - Built **queue workers to process payout requests asynchronously**, ensuring scalability and reliability for high-volume corporate transactions.
- **Corelink Unified Services Sync System** | Laravel, PostgreSQL, Multi-Tenant, Event-Driven,Reverb ,React  
Built an **enterprise-grade synchronization system** unifying service data from multiple fintech platforms (e.g., XPI MMS, MineSec SoftPOS) into a **single merchant dashboard**.
  - Built an **adapter-based integration engine** for heterogeneous APIs (REST/JSON) with service-agnostic interfaces.
  - Introduced a **configuration-driven sync engine**, enabling new service types to be added without new code.

- Implemented **asynchronous, queue-based sync jobs** with tenant isolation, parallel processing, and error handling.
- Synchronized **16+ business entities** (merchants, terminals, EMV configs, outlets, financial profiles) with independent transformation layers.
- Delivered **audit & compliance logging** with full traceability, cache-based orphan detection, and recovery mechanisms.
- **Aman Accept** | Laravel, PostgreSQL, RabbitMQ, React  
Developed **microservices for merchant e-stores**, covering **settings, support, and transaction processing**.
  - Optimized **invoice handling** using Laravel and RabbitMQ for efficient backend communication.
  - Assisted in integrating **React frontend with backend APIs** for seamless real-time updates.
  - Implemented **robust security measures** to protect merchant data and transactions.
  - Enhanced user experience with **intuitive invoice management and transaction monitoring tools**.
- **Mimocodes Store** | Laravel, MySQL  
Integrated **multiple payment gateways** (Opay, Geidea, Fawry, paymob) for **smart routing of transactions**.
  - Built **distribution rules** for optimal payment flows.
- **Bopay Dashboard** | Laravel, MySQL, Vue.js  
Contributed to a **merchant invoicing dashboard** with Vuexy-based UI.
  - Implemented **real-time invoice management** and reporting tools.
- **Banknbox API Gateway Management System** | Laravel, Livewire, MySQL  
Built a secure **API Gateway management platform** with role-based access controls.
  - Implemented **robust authentication & authorization** to protect API requests.
  - Developed an **intuitive Livewire dashboard** for managing APIs, users, and roles.
  - Ensured **seamless integrations** with external systems and services.
- **ZAD LMS** | Laravel, MySQL, AJAX, jQuery  
Contributed to a **learning management system** with custom modules.
  - Added **quiz, assignment, and grading features**, including **PDF editing for assignment correction**.
- **IBO Player** | HTML, CSS, JavaScript  
Enhanced the **TV media player app** by implementing **custom layouts, themes, and UI improvements**.

## Education

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|---|----------------|
| Cairo University  | 2022 – Present |
| Postgraduate Diploma in Computer Science  |                |
| Modern Academy  | 2016 – 2020    |
| B.Sc. Management Information Systems  |                |
| <ul style="list-style-type: none"> <li>● <b>Graduation Project:</b> Built a web app for patient medical history management (ASP.Net MVC, SQL Server) graded Excellent.</li> </ul> |                |

## Certifications

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- Professional Scrum Master I (PSM I) Scrum.org (2025)