FARID AZZAM

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OBJECTIVE

Senior Software Engineer with over 2 years of experience in software development, seeking full-time software development roles.

EDUCATION

Bachelor of Computer Science (Hons.), London South Bank University   2019 - 2023

Bachelor of Computer Science, The British University in Egypt   2019 - 2023

SKILLS

Frontend	React, Mantine UI, CSS Modules, Recharts, React Router, TanStack Query, Redux
Backend	Node.js, Express, REST APIs, GraphQL, JWT, Nodemailer, Multer, OAuth, Sequelize, MongoDB
DevOps	Linux, PM2, Nginx, DigitalOcean, SSH, SSL setup, Reverse Proxy Configuration, Docker
Tools	Git, Jira, Postman, VS Code, GitHub, PHPMyAdmin, DBeaver, Mongo Atlas, LangChain
Soft Skills	Team Collaboration, Problem Solving, Ownership, Agile Mindset

EXPERIENCE

Senior Software Engineer   Aug 2025 - Nov 2025

Cloudilic   *Cairo, Egypt*

- Designed and implemented the core AI Agent architecture, using LangChain and LangGraph, for Dragify (Cloudilic flagship), including multi-agent orchestration, long-term memory, ReAct-style reasoning, and scalable LLM execution pipelines using OpenAI and Gemini.
- Delivered end-to-end integration of the AI Agent with 20+ automation modules (OCR, Gmail, Slack, RAG, Databases, Drive, Vision, Web Search, Custom API), enabling fully autonomous workflows and significantly improving system capability.
- Built a secure, production-grade Slack Trigger & Slack Webhook system, including secure signing verification, link generation, endpoint architecture, and real-time workflow execution and created reusable infrastructure for all triggers to unify future integrations across tools.
- Engineered the main workflow infrastructure including the Variables System for workflow automation (workflow variables, global variables, block-level variables), with compiler-like parsing, drag-and-drop insertion, syntax highlighting, dependency detection, and real-time state synchronization.
- Developed and shipped the Start Function Block and workflow execution engine, enabling chat-based workflow invocation, dynamic node/edge validation, custom inputs, and tight integration with the AI Agent.
- Improved backend reliability and performance by implementing caching layers, API call reduction, recursive-execution prevention, and execution-flow optimizations across the automation engine.
- Implemented and delivered the User Groups & Permissions system with role-based access control (RBAC), workflow-level authorization, invitation lifecycle management, email-based invites, and plan-based usage limits.
- Contributed to organization-wide AI initiatives including Pharmacy AI Agents (clinical reasoning, safety checks) delivering custom tools, system design documentation, and cross-team collaborations.

Software Engineer   Feb 2025 - Aug 2025

Value Business Planning   *Cairo, Egypt*

- Spearheaded the development of a real estate management dashboard using React, Mantine UI, and Recharts, resulting in a 40% improvement in user engagement.

- Implemented structured workflows using Jira, leading the frontend team to achieve a 50% increase in project delivery speed.
- Designed a scalable design system of reusable components using CSS Modules and React Context API for global state management, enhancing maintainability and cutting feature development time by 30%.
- Enhanced frontend performance by implementing code splitting, lazy loading, and bundle optimization, and caching using React Tenstack Query leading to a 35% reduction in initial page load times.
- Developed and maintained backend features using JWT for secure token-based authentication via HTTP-only cookies, OTP-based user verification, and password reset flows using Nodemailer and encrypted OTP tokens with proper model associations.
- Deployed backend on DigitalOcean using PM2 for process management and Nginx as a reverse proxy, including configuration for static asset delivery and secure HTTPS setup, while enhancing server perfomance by 45% by adding additional swap memory to deployment server.

Fullstack Development Intern Nov 2024 - Feb 2025
Information Technology Institute *Cairo, Egypt*

- Gained expertise in version control systems using Git for collaborative development.
- Built various full-stack applications using ReactJS, HTML5/CSS3, and JavaScript.
- Acquired hands-on experience in Linux system administration and Bash scripting.
- Mastered PostgreSQL and MySQL database querying and relational database design.

Programming & Solutions Developer Intern Aug 2024 - Sep 2024
Timeline EG *Cairo, Egypt*

- Applied control programming concepts using Lua to automate system behaviors.
- Designed DSP systems and graphical user interfaces in Q-SYS Designer software.
- Achieved Q-SYS Control 101 and Q-SYS Level 1 certifications, demonstrating core system integration skills.

PHP Developer Sep 2023 - Oct 2023
123Credit.ro *Bucharest, Romania*

- Maintained and enhanced web applications, resolving PHP syntax and type-conversion issues.
- Diagnosed and resolved administrator-side database retrieval problems in collaboration with the development team.
- Wrote and tested code to fix minor website interoperability and user experience issues.

PROJECTS

Dragify AI. A workflow automation platform that involves a plethora of nodes/function blocks. Developed multiple function blocks, including web search, slack trigger, and the AI Agent function block which effectively uses all available nodes in response to user prompts. (Try it here)

IAMIN Educational Platform. An educational platform for educational organizations and freelance tutors that digitalizes all learning stages into easily accessible courses and online lectures. (Try it here)

RAG Workflow Builder (n8n clone). A small workflow automation platform that incorporates the usage of Large Language Models (LLMs) and Retrieval Augmented Generation (RAG) to provide effective summaries of uploaded documents. (Try it here)

Leila Residential Compound. An application for residents to submit complaints to maintenance/security departments, allowing them to track the status of their complaints. (Try it here)

Real Estate CRM & ERP. A platform for managing real estate brokers, listings, and contracts, featuring sophisticated KPIs and an elegant UI. (Try it here)

REM Waste Management Frontend A modern React application featuring an elegant, responsive carousel for skip selection, aimed at improving user experience. (Try it here)

E-commerce Application A custom e-commerce web application using GraphQL for the API layer. [(Try it here)](#)

EXTRA-CURRICULAR ACTIVITIES

- Actively build and share personal software projects with the developer community, showcasing real-world use cases in React, Firebase, and PHP to inspire junior developers and learners.

- Volunteered as part of the Multicultural Club at The British University in Egypt, helping organize the 2022 International Day, an event that brought various embassies and cultural groups to campus.

LEADERSHIP

- Led the frontend team at Value Business Planning, coordinating the development of scalable, component-based UIs using ReactJS. Managed sprint planning and task tracking through Jira, contributing to a 50% increase in overall project delivery speed.

- Operations team member for The British University in Egypt's Multicultural Club, helping organize International Day 2022 and coordinating with international embassies to ensure a successful campus-wide event.