Sayed Ibrahim

BACKEND ENGINEERING INTERN

PROFESSIONAL SUMMARY

Backend Developer and final-year Computer Science student specializing in scalable web applications, RESTful APIs, and decentralized architectures. Proficient in modern database management and system design, recently highlighted by my graduation project: architecting and deploying a custom blockchain network using the Cosmos SDK. Driven by a strong problem-solving mindset, I am eager to tackle complex engineering challenges and build secure, high-performance software solutions.

Phone:	**Email:**				**Address:**
01069210115	sayedibrahim.co@gmail.com	**Github**	**Linkedin**	**Portfolio**	Shobra - Cairo

EDUCATION

Bachelor of Science in Computer Science | 2022 – 2026 Ain Shams University
Relevant Coursework: Software Engineering, Advanced Topics in Artificial Intelligence, Web Data Extraction, Bioinformatics, Object-Oriented Programming, Data Structures
Graduation Project: Sawtak (صوتك) – A decentralized complaints platform designed to ensure secure, transparent, and tamper-proof issue reporting.

SKILLS

Languages: Python, Go, JavaScript/TypeScript, C#
Frameworks & Technologies: Django, Cosmos SDK, Bun/Elysia , ASP.NET
Databases: PostgreSQL, MySQL
Core Concepts: RESTful APIs, Object-Oriented Programming (OOP), Data Structures & Algorithms, System Architecture
Tools & Infrastructure: Git, Linux (Fedora), VPS Configuration, Postman

PROJECTS

Sawtak (صوتك) – Decentralized Complaints Platform (Graduation Project)Backend & Lead
Blockchain Developer | 2025 – Present

- Core Ledger Infrastructure: Engineered a custom, application-specific blockchain from scratch using Go and the Cosmos SDK, delivering a highly secure, tamper-proof backend architecture designed for absolute data immutability.
- API & Data Synchronization: Architected robust RESTful APIs using Bun and Elysia, and built a custom indexing service to synchronize real-time on-chain transaction events with a PostgreSQL database for high-availability querying.
- Cryptography & Security: Developed a custom Proof of Authority (PoA) consensus module and implemented on-chain cryptographic verifiers using Ed25519 signatures, ensuring strict data integrity without exposing sensitive user information.
- Middleware Engineering: Designed custom transaction validation middleware (AnteHandler decorator) in Go to intercept data pipelines, successfully mitigating unauthorized state modifications and securing the network against Authz bypass vulnerabilities.

BrandMinder – AI-Powered SaaS Platform
Full-Stack Developer & Founder, Early 2026

- Architected the backend infrastructure for a multi-tenant SaaS platform focused on automating personal branding and content scheduling.
- Designed a scalable relational database schema to manage multiple subscription tiers, isolating user workspaces and their connected social media accounts.
- Integrated third-party APIs to streamline content generation workflows, ensuring secure and efficient data handling across the application.

Parade Weather – Predictive Analytics Dashboard (NasaSpace Apps Hack)
Backend Developer, October 2025

- Developed a robust web backend using Django to process, manage, and serve complex weather prediction data to a frontend user interface.
- Engineered seamless integrations with external data sources, including NASA APIs and Gemini APIs, alongside SARIMAX time-series analysis models.
- Authored comprehensive technical documentation (Readme) detailing the system architecture, API endpoints, and deployment instructions to support future development.

LEADERSHIP & EXTRACURRICULAR EXPERIENCE:

Neurizon (Tech & AI Hackathon Team)
Team Lead, 2025 – Present

- Led a specialized tech team in competing at various hackathons, focusing on rapid problem-solving, AI integration, and software engineering under strict deadlines.
- Fostered a highly collaborative environment, ensuring effective communication and task delegation across the team.
- Represented the team in major tech and AI hackathons (such as the NASA Space Apps Hackathon, Google Hackathon, Hedera Blockchain Hackathon), focusing on rapid backend development and problem-solving.
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InnovEgypt Entrepreneurship Program
Participant & Team Lead, Early - 2026

- Navigated an intensive startup accelerator, successfully leading a team to pivot our entire business model based on critical data analysis.
- Bridged the gap between technical development and business strategy, honing strong communication and product management skills.