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About

Backend Engineer skilled in Python, TypeScript, and cloud-native development. I build scalable APIs, serverless architectures, and full-stack features. Passionate about clean code, solid design patterns, delivering reliable backend services and contributing to open-source software.

Education

- **Faculty of Engineering** Helwan University
  Bachelor of Electrical Engineering and Computer Science; *Sep. 2014 – Sep. 2020*

Experience

- **Digified** Cairo, Egypt
  Senior Software Engineer *Apr 2024 - present*
  - Architected and developed distributed RESTful and gRPC microservices, designing scalable APIs to support high-throughput workloads and low-latency communication.
  - Refactored core business logic into modular, maintainable codebases using Clean Architecture, SOLID principles, and separation of concerns.
  - Developed concurrent, asynchronous background workers to process high-volume queue workloads, implementing robust error handling and fault-tolerant processing mechanisms.
  - Designed and implemented comprehensive unit and integration testing suites to improve code reliability, strengthen regression prevention, and ensure consistent application behavior.
- **VOIS** Cairo, Egypt
  Senior Software Engineer *Mar 2024 - Mar 2026*
  - Engineered and optimized FastAPI microservices forming core backend infrastructure for internal platforms.
  - Designed serverless architectures using AWS Lambda, improving scalability and reducing operational overhead.
  - Modeled and optimized DynamoDB tables to support high-performance, low-latency access patterns.
  - Built extensible Backstage backend plugins and UI components, enhancing developer productivity and internal tooling capabilities.
- **Innosoft SA** Cairo, Egypt
  Back-End Developer *Sep 2023 - Mar 2024*
  - Led the design of scalable database architectures to support growing product requirements.
  - Developed robust RESTful APIs with clear versioning, documentation, and backward compatibility considerations.
  - Integrated complex external services and third-party APIs into distributed backend workflows.
  - Delivered advanced customizations within the Frappe framework, improving automation and operational efficiency.
- **IQRA Network** Cairo, Egypt
  Full-Stack Developer *Aug 2022 - Sep 2023*
  - Modernized and optimized the IQRA web platform, improving reliability, maintainability, and user experience.
  - Built and shipped new dashboard modules used daily by administrators and instructors, reducing manual operational overhead.
  - Integrated Firebase authentication and storage workflows, strengthening platform security and scalability.
- **DataSoft** Cairo, Egypt
  Back-End Developer *Jan 2022 - Aug 2022*
  - Delivered enterprise-grade ERP implementations tailored to business workflows and operational constraints.
  - Designed and built modular business applications with a focus on maintainability, performance, and extensibility.
  - Integrated ERPNext with external systems to create unified, automated data flows across client environments.

Programming Skills

Languages:
Python, SQL, JavaScript, TypeScript.

Technologies:
FastAPI, Flask, Django, Frappe, MYSQL, Dynamodb, Express, GIT, VueJs, Tailwind, GNU/Linux, Azure, Terraform.

Languages

- Arabic
- English