Omar Elnoamy

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EDUCATION

- **The German University in Cairo (GUC)** — Sep 2019 – Jul 2024
  B.Sc. in Media Engineering and Technology (Grade: B+) — Cairo, Egypt

TECHNICAL SKILLS

Databases: SQL (PostgreSQL, MySQL, phpMyAdmin) – excellent SQL skills, NoSQL (MongoDB, Redis, CouchDB), pgAdmin4

Data Analysis: Strong SQL skills, basic knowledge of Power BI

Languages & Frameworks: Java (Spring, Quarkus), Node.js, Python, PHP (CodeIgniter), JavaScript, TypeScript, HTML/CSS

Backend: Java (Spring, Quarkus), Node.js, Python, CodeIgniter

Frontend: React, Angular, JavaScript, TypeScript, HTML/CSS, PHP

Cloud Technologies: Google Cloud Platform, Docker, Kubernetes

Messaging/Integration: Kafka, RESTful APIs, Apache Flume, Kibana

DevOps Tools: Jenkins, GitLab CI, GitHub, Docker, Terraform, Kubernetes

Testing: JUnit, Selenium, Postman, TDD

IT: Managed university IT infrastructure, Ensured network security, Assisted in system development, Managed servers and databases

Tools/Platforms: VS Code, Eclipse, IntelliJ, Postman, Git, Linux (RHEL), GCP, AWS

EXPERIENCE

- **East Portsaid National University (EPNU)** — Nov 2024 – Present
  Software Developer / IT Specialist — East Portsaid, Egypt

  - Built a university management system for academic and administrative processes.
  - Managed SQL databases and phpMyAdmin for backend operations.
  - Maintained and secured IT infrastructure and internal networks.
  - Provided technical support and regular system maintenance.
  - Collaborated with academic staff to improve system usability.

- **German University in Cairo (GUC)** — Mar 2024 – May 2024
  Web Application Developer — Cairo, Egypt

  - Developed a flight booking system using Java, PostgreSQL, Redis, Kafka.
  - Integrated Redis caching and CouchDB for document storage.
  - Used Apache Flume and Kibana for real-time logging and analytics.

- **German University in Cairo (GUC)** — Mar 2023 – Sep 2023
  Thesis Researcher & Assistant — Cairo, Egypt

  - Researched image encryption using chaotic maps (Tent, Hénon, Lorenz).
  - Published IEEE paper with 700+ reads and 15+ citations.
  - Developed secure cryptographic algorithms for data protection.

PROJECTS

- **Medical Information Bank**   May 2025 – Present
  Node.js, Express, PostgreSQL

    - Developing a full-stack medical platform for storing and managing patient data.
    - Implemented backend with Express; PostgreSQL for database management.

- **Online Learning System**   Nov 2021
  MERN Stack

    - Built a complete e-learning system with user roles: admin, teacher, student.
    - Implemented user authentication, course creation, and tested APIs with Postman.

- **Online Market Platform**   Jan 2021
  JavaScript, HTML/CSS, MongoDB

    - Created an e-commerce site with product catalog and user authentication.
    - Integrated RESTful APIs for backend communication.

- **Automotive Embedded System**   Mar 2022
  Arduino-based Project

    - Built features like auto-parking, rain sensor, ultrasonic detection, MP3 audio.

LEADERSHIP AND MENTORSHIP

- Mentored junior developers through code reviews and technical guidance.

- Led a student development team, ensuring collaboration and timely delivery.

- Actively participated in sprint planning and system design discussions.