Mostafa Ebrahim Mostafa

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Experience

Software Engineer May 2024 – Present

Thunder *Saudi Arabia*

- Architected and scaled the backend infrastructure for a high-traffic marketing attribution platform, serving hundreds of thousands of daily requests per customer storefront while maintaining 99.9% uptime and zero data loss
- Built the commerce and marketing backbone by designing robust data pipelines and APIs that integrate tightly with major e-commerce platforms (Salla, Zid, Shopify, WooCommerce) and ad networks, unifying fragmented data into a single source of truth
- Designed an event-driven microservices architecture utilizing TypeScript, Node.js, and GCP Pub/Sub to reliably process, route, and store high-throughput commerce data streams at scale
- Engineered optimized PostgreSQL database models and RESTful APIs using Prisma, ensuring clean API design and low-latency data retrieval under high-volume traffic
- Integrated Google BigQuery for data warehousing, designing scalable pipelines to process and analyze massive datasets, enabling fast analytical querying for complex marketing attribution reports
- Demonstrated end-to-end ownership by automating CI/CD pipelines via GitHub Actions and Docker on Google Cloud Platform (GCP), reducing deployment times by 50% while establishing real-time error tracking with Sentry
- **Technologies:** TypeScript/JavaScript (Node.js), Express.js, PostgreSQL, BigQuery, ORM (Prisma), GCP, RabbitMQ, Pub/Sub, Docker, Sentry, React (Next.js), Git

Founder Sep 2026 – Present

Dentoscope *Cairo, Egypt*

- Founded and built Dentoscope, a complete digital platform for dental clinics that unifies patient records, appointment scheduling, and digital prescriptions in one system
- Delivered zero-lag live microscope streaming by converting the camera feed from RTSP to the WebRTC protocol, enabling real-time viewing in the browser
- Built 3D case presentations with Three.js, allowing dentists to show treatment plans to patients during consultations
- **Technologies:** TypeScript, Node.js, SQLite, ORM (Prisma), React (Next.js), Three.js, WebRTC, RTSP

Software Engineer Dec 2022 – Nov 2023

Egyptian Military Academy *Cairo, Egypt*

- Built automated ETL pipelines using Python, Pandas, and Selenium to scrape and aggregate disparate internal data, reducing daily reporting cycles by ∼80%
- Enhanced data retrieval performance by optimizing complex SQL queries, delivering faster insights for high-level strategic briefings
- Authored comprehensive documentation for system data flows and trained team members on automated reporting tools, ensuring long-term maintainability and continuity
- **Technologies:** Python, pandas, Selenium, SQL, HTML, JavaScript

Education

Tanta University, Faculty of Engineering Sep 2017 – Jul 2022

Bachelor of Engineering, Major: Computer Engineering *Tanta, Egypt*

- Graduation project: A Self-driving Wheelchair with Health System and Mobile Application

Technical Skills

Backend & Architecture: Node.js, TypeScript, JavaScript (ES6+), Microservices, Event-Driven Architecture, RESTful API Design
Frameworks: NestJS, ExpressJS, NextJS
Databases & Messaging: PostgreSQL, GCP Pub/Sub, MongoDB, Prisma / ORMs
DevOps & Tools: Google Cloud Platform (GCP), Docker, CI/CD (GitHub Actions), Git, Sentry, Linux

Technical Achievements

ECPC Problem Solving Qualification Round | *Participant* Oct 2021 & Oct 2022

Google Hash Code 2020 Qualification Round | *Participant* Feb 2020