

MUHAMMED AMER

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SUMMARY

A curious mind passionate about how systems work. I specialize in backend development with Node.js and Go, focusing on clarity and scalability. Each project I build teaches me something new and fuels my drive to create better software. I enjoy solving complex problems, contributing to open-source projects, and constantly exploring how technology can be used to build meaningful products.

EDUCATION

The Egyptian E-Learning University

OCT 2022 – Present

Faculty of Computers and Information Technology

Relevant Coursework: OOP, Databases, Data Structures and Algorithms, Computer Networks, Software Engineering, Operating Systems, AI, ML, NLP.

TECHNICAL SKILLS

Languages: Java, Python, Go, JavaScript/TypeScript, SQL

Backend / Frameworks: Node.js, Express.js

Databases: MongoDB, MySQL

Tools: Git, Docker, Linux, Postman

EXPERIENCE

Software Engineer Intern

JUL 2023 – OCT 2023

Huawei

Cairo

- Developed Python-based pipelines to integrate and validate data from 5+ Excel sources, establishing automated quality checks that identified critical inconsistencies and improved data accuracy across teams.
- Performed statistical analysis on large datasets using Pandas and NumPy to generate actionable insights, supporting data-driven decision-making for project stakeholders.
- Streamlined repetitive data transformation and reporting workflows through Python scripting, reducing daily processing time from 20 minutes to under 1 minute and eliminating manual errors.

OPEN SOURCE CONTRIBUTIONS

Datacenter Planner

Datacenter Planner

- Contributed to an open-source datacenter planning tool by implementing core UI features, improving code documentation, and refactoring event handling logic using JavaScript and Three.js.

PROJECTS

Brotocall

Brotocall

- Real-time chat app built with Node.js, Express, MongoDB, and Socket.io for instant messaging between authenticated users.
- Implemented JWT-based authentication, media uploads via Cloudinary, and CI/CD deployment using GitHub Actions to sevilla.

Transify

Transify

- Node.js CLI tool that extracts and translates text from PDF files into multiple languages.
- Published on npm, offering sentence-level and full-document translation with efficient command-line usage.

Karma

Karma

- A programming language written in Go featuring a lexer and Pratt parser for expression evaluation.
- Built core syntax and tokenization logic to handle operators, identifiers, and literals efficiently.

Gochain

Gochain

- Blockchain prototype in Go providing APIs for block creation, retrieval, and validation.
- Ensured chain integrity and secure linkage using cryptographic hashing and server-side validation.