

# 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

<b>The Egyptian E-Learning University</b> <i>Faculty of Computers and Information Technology</i>	OCT 2022 – Present
<b>Relevant Coursework:</b> 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

<b>Software Engineer Intern</b> Huawei	JUL 2023 – OCT 2023 Cairo
<ul style="list-style-type: none"><li>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.</li><li>Performed statistical analysis on large datasets using Pandas and NumPy to generate actionable insights, supporting data-driven decision-making for project stakeholders.</li><li>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.</li></ul>	

## OPEN SOURCE CONTRIBUTIONS

<b>Datacenter Planner</b>	<a href="#">Datacenter Planner</a>
<ul style="list-style-type: none"><li>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.</li></ul>	

## PROJECTS

<b>Protocall</b>	<a href="#">Protocall</a>
<ul style="list-style-type: none"><li>Real-time chat app built with Node.js, Express, MongoDB, and Socket.io for instant messaging between authenticated users.</li><li>Implemented JWT-based authentication, media uploads via Cloudinary, and CI/CD deployment using GitHub Actions to sevalla.</li></ul>	

<b>Transify</b>	<a href="#">Transify</a>
<ul style="list-style-type: none"><li>Node.js CLI tool that extracts and translates text from PDF files into multiple languages.</li><li>Published on npm, offering sentence-level and full-document translation with efficient command-line usage.</li></ul>	

<b>Karma</b>	<a href="#">Karma</a>
<ul style="list-style-type: none"><li>A programming language written in Go featuring a lexer and Pratt parser for expression evaluation.</li><li>Built core syntax and tokenization logic to handle operators, identifiers, and literals efficiently.</li></ul>	

<b>Gochain</b>	<a href="#">Gochain</a>
<ul style="list-style-type: none"><li>Blockchain prototype in Go providing APIs for block creation, retrieval, and validation.</li><li>Ensured chain integrity and secure linkage using cryptographic hashing and server-side validation.</li></ul>	