

AHMED HENDAWY

Software Engineer

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SUMMARY

Highly motivated Software Engineer specializing in Backend and Cloud Development. Skilled in developing scalable, efficient cloud-native applications using Golang, Python, C++, and JavaScript. Leverages strong algorithmic thinking and problem-solving skills to improve system reliability, optimize performance, and build robust, maintainable solutions. Seeking an opportunity to make an impact and contribute to the mission of making the world a better place.

PROFESSIONAL EXPERIENCE

Software Engineer, Backend, L1

Cairo, Egypt

Extreme Solution

Nov 2025 – Present

- Developed robust and scalable backend cloud-native systems, enhancing performance and reliability.
- Collaborated with cross-functional teams to integrate Google Cloud solutions, optimizing system architecture.
- Contributed to the company's growth as an official Google Cloud partner, driving innovation in cloud technologies.

Software Engineer, Backend and Cloud

Austin, Texas, United States

Layer5

Nov 2024 – Jan 2025

- Participated in backend development for Meshery, a cloud native manager, acts as an extensible platform for the collaborative design and operation of cloud native infrastructure and applications. It's like Figma but for Kubernetes.
- Enhanced performance and stability across all Meshery components by upgrading the codebase to Go 1.23, leveraging new features while systematically resolving incompatibilities and replacing deprecated Go 1.21 elements.
- Implemented automated testing workflows to validate functionality of Meshery components, ensuring continuous integration for durable performance.
- Expanded Meshery's management capabilities by integrating over 300 external tools, defining them as Kubernetes Custom Resource Definitions (CRDs) for seamless discovery and control.
- **Pull Requests:** A detailed list of my contributions and code changes.
- **Tech:** Go; JavaScript; Docker; Kubernetes; Bash; GitHub Actions.

Software Engineer, Backend, Intern

Egypt

Information Technology Institute (ITI)

Jun 2023 – Aug 2023

- **Backend Knowledge (GitHub):** Implemented authorization, authentication, database integration, etc.
- **Library Management System (GitHub):** Created a library management system featuring user registration and an admin dashboard. Optimized existing PostgreSQL queries using indexing.
- Created responsive UI components to seamlessly interact with the Django server.
- **Tech:** Python; Django; PostgreSQL; Bootstrap; HTML; CSS; JavaScript.

Software Engineer, AI, Intern

Egypt

National Telecommunication Institute (NTI)

Jun 2022 – Aug 2022

- Implemented recognition algorithms, significantly enhancing the accuracy and efficiency of detection systems.
- Applied knowledge of Linear Algebra to optimize existing recognition systems.
- Participated in group projects and practiced leadership, teamwork, problem-solving, and effective communication.
- **Tech:** Python; TensorFlow; Jupyter Notebook; Linear Algebra.

EDUCATION

Mansoura University

Egypt

B. Sc. in Computers and Systems Engineering

Sep 2019 – Jul 2024

Faculty of Engineering, Department of Computer Engineering and Control Systems.

Undergraduate Coursework: Computers Operating Systems; Mathematics 1,2,3,4,5; Database Design 1, 2; Data Structure and Algorithms; Artificial Intelligence; Distributed Systems; Computer Graphics; Computer Architecture; Network Design and Programming; Pattern Recognition; Advanced Computer Applications.

SKILLS

Languages: Go/Golang, Python, Java, JavaScript, TypeScript, HTML, CSS, C, C++, Bash.

Developer Tools: Git, Docker, GCP, VS Code, MySQL, PostgreSQL, MongoDB, Linux, Shell, LaTeX.

Technologies: Node.js, React, Next.js, Django.

Software Engineering: Object-Oriented Design, Test-Driven Development (TDD), Algorithm Design, Problem Solving, Data Structure, Complexity Analysis, Distributed Systems, Relational Database, NoSQL Databases.

PROJECTS

X ([GitHub](#)): Maintain X, an open-source Twitter management tool supporting 100+ active users. Enables reliable tweet posting and scheduling via the Twitter API, achieving a 100% success rate for scheduled task execution and maintaining high availability (100% uptime) since launch.

Tech Stack: Go, OAuth 2.0, Node.js, Next.js, TypeScript.

Graduation Project: Bookipedia ([Server](#), [AI](#), [App](#)): Bookipedia is an online library with an AI powered reading assistant, revolutionizing the digital reading experience by providing users with insights and answers to their questions about their books and documents, summaries and even web research, all through a natural-language chat.

In addition, users can upload scanned documents to convert them to readable PDFs and use text-to-speech to set back and listen to their favorite books.

I led the cloud deployment, enabling intensive computations and ensuring optimal performance. Designed and deployed a scalable infrastructure to support demanding AI computations, ensuring reliability and efficiency.

Tech Stack: Node.js; Python; Flutter; GitHub Actions; Bash.

Dearself ([Demo](#), [GitHub](#)): Developed email scheduling service, leveraging GoLang for backend operations and Next.js for Frontend development. The system integrates with Mailjet to facilitate reliable email dispatch. This project demonstrates proficiency in full-stack development, asynchronous programming, and third-party API integration.

Tech Stack: Next.js; TypeScript; TailwindCSS; Go; Gin; Mailjet API.

Bats ([GitHub](#)): Architected Bats, a social media platform that comes alive when the sun goes out, supporting user interactions with real-time notifications and intuitive design, developed a high-performance backend with secure JWT authentication and optimized API endpoints using Go's concurrency features, and designed a scalable MySQL database schema to support user-generated content, including posts and comments.

Tech Stack: React, Go, MySQL, JWT, WebSocket.

Venom ([GitHub](#)): Distributed cloud-native key-value store that is idempotent, resilient, and able to scale, featuring concurrency abilities of Golang and cloud-native software design systems.

Tech Stack: Go; Cloud-Native; Concurrency.

Doodle ([GitHub](#)): Chrome extension that allows you to draw on any webpage to take notes, highlight important information, etc.

Tech Stack: HTML; CSS; TypeScript; Chrome APIs.

VOLUNTEERING

IEEE Mansoura Student Branch (Aug 2020 - Nov 2022): Served as a coordinator and helped in organizing competitive programming contests to foster an intellectually stimulating environment.

CAT Reloaded (Sep 2020 - Nov 2021): Provided mentorship across diverse teams spanning CS, Backend, Frontend, and UI/UX design.

ICPC Mansoura University (Apr 2022 - Jul 2023): Coordinated various events including Tech-Elixir 2.0, Career Insider 6.0, and IEEE Victoris 1.0.