AHMED HENDAWY

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SUMMARY

Software Engineer interested in Backend and Cloud Development. Proficient in Go, Python, and JavaScript. Currently enhancing my skills in Distributed Systems and Cloud-Native Development. All my work is showcased on my GitHub.

EDUCATION

Mansoura University   Mansoura, Egypt
BSE, Computer Engineering   *Aug. 2019 – June 2024*
Faculty of Engineering, Department of Computer Engineering and Control Systems.
Undergraduate Coursework: Operating Systems; Database Design; Data Structures; Algorithms; Programming Languages; Comp. Architecture; Computer Graphics; Web Applications Design; Linear Algebra; Calculus III; Numerical Analysis; Digital Control.

PROFESSIONAL EXPERIENCE

Information Technology Institute (ITI)   Mansoura, Egypt
Backend Engineering Intern   *July 2023 – August 2023*

- **General Backend Patterns (GitHub):** Learned general backend practices including authorization, authentication, DB integration, etc.
- **Library Management System (GitHub):** Created library management system featuring authentication and contains admin dashboard.
- **Skills:** Python; Django; PostgreSQL; Bootstrap; HTML; CSS; JavaScript.

National Telecommunication Institute (NTI)   Cairo, Egypt
AI Engineering Intern   *July 2022 – August 2022*

- **Recognition Systems:** Implemented sophisticated image recognition algorithms, significantly enhancing the accuracy and efficiency of detection systems.
- **Math Knowledge:** Applied knowledge of Linear Algebra to optimize and fine-tune machine learning models.
- **Skills:** Python; TensorFlow; Jupyter Notebook; Linear Algebra.

PROJECTS

X (Demo, GitHub): Currently maintaining this open-source project with over 100 active users. This project enables users to interact with Twitter API, facilitating tasks such as posting tweets and scheduling future tweets.
It incorporates OAuth2 protocol for user authentication. Go, OAuth 2.0, HTTPS, Node.js, Next.js, TypeScript

Dear self (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.

Doodle (GitHub): Chrome extension enables users to take notes on webpages. TypeScript, Chrome API

Katty (GitHub): Discord bot to fetch songs' lyrics. Go, Discord API, Musixmatch API

Obliviax (GitHub): Chess engine implements the Universal Chess Interface protocol. C++, OOP

SKILLS

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

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

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

Software Engineering: Object-oriented design, Test-driven development (TTD), Algorithm Design, Data Structures, Problem Solving, Complexity Analysis, Distributed Systems, Relational database, NoSQL databases.

VOLUNTEERING

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

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