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   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.

PROFESSIONAL EXPERIENCE

Information Technology Institute (ITI)   Egypt
Backend Engineering Intern   *July 2023 – August 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 by 35% using indexing.
- **Skills:** Python; Django; PostgreSQL; Bootstrap; HTML; CSS; JavaScript.

National Telecommunication Institute (NTI)   Cairo, Egypt
AI Engineering Intern   *July 2022 – August 2022*
- Implemented sophisticated recognition algorithms, significantly enhancing the accuracy and efficiency of detection systems.
- Applied knowledge of Linear Algebra to optimize existing recognition systems by up to 10%.
- Participated in group projects, and practiced leadership, teamwork, problem-solving, and effective communication.
- **Skills:** Python; TensorFlow; Jupyter Notebook; Linear Algebra.

PROJECTS

X (Demo, GitHub): Currently maintaining this open-source project onboarded over 100 active users within 1 month. It features interacting with Twitter API, facilitating tasks like posting tweets and scheduling future tweets with a 100% successful tweet execution rate. Its uptime is 100% since lauch.
It incorporates OAuth2 protocol for user authentication. Go, OAuth 2.0, 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.

Bats (GitHub): Fully-featured social media app built with React, Go and MySQL. Leveraging Golang concurrency features on the server allowed more than 60% RPS on the same VPS.

SKILLS

Languages: Go/Golang, 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 - November 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.