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Employment

Software Backend Engineer, Intern **Information Technology Institute (ITI)** **July 2023 - August 2023**
Mansoura, Egypt

- Developed a full-stack library management system, demonstrating proficiency in end-to-end project delivery.
- Implemented a user-friendly admin dashboard, enhancing system accessibility and control.
- Created responsive UI components using Bootstrap to seamlessly interact with the Django server.
- **Skills:** Python; Django; PostgreSQL; Bootstrap; HTML; CSS; JavaScript.

AI Engineer, Intern **National Telecommunication Institute (NTI)** **July 2022 - August 2023**
Cairo, Egypt

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

Education

Mansoura, Egypt **Mansoura University** **Fall 2019 – July 2024**

- Faculty of Engineering, Department of Computer Engineering and Control Systems.
- Pursuing B.S.E. in Computer Engineering.
- Undergraduate Coursework: Operating Systems; Databases; Data Structures; Algorithms; Programming Languages; Comp. Architecture; Computer Graphics; Linear Algebra; Calculus III; Numerical Analysis; Digital Control; PLC Design.

Technical Experience

Projects

- [X](#). CLI tool to interface with Twitter API, e.g. posting tweets. Go, OAuth 2.0, HTTPS
- [dearself](#). mailing service to sending future mails to yourself as a message from the past, e.g. posting tweets. Next.js, TypeScript, TailwindCSS, Go, Gin, Mailjet API
- [katty](#). Discord bot to fetch songs' lyrics. Go, Discord API, Musixmatch API
- [Oblivix](#). Chess engine implements the Universal Chess Interface protocol. C++, OOP
- [Library](#). library management system including student authentication and admin dashboard implementation. Python, Django, PostgreSQL, HTML, CSS, JS
- [Doodle](#). Chrome extension where users can take notes on webpages. TypeScript, Chrome API

Volunteering

- **ICPC Mansoura University (April 2022- July 2023):** Coordinated local competitive programming contests within my university, fostering a competitive and intellectually stimulating environment.
- **IEEE Mansoura Student Branch(August 2020- November 2022):** Engaged actively in the coordination of various events, including Tech-Elixir 2.0, Career Insider 6.0, and IEEE Victoris 1.0.

Languages and Technologies

- Object-oriented design, Test-driven development (TTD), Algorithm Design, Data Structures, Problem Solving, Complexity Analysis, Distributed Systems, Relational database, NoSQL databases
- JavaScript; Python; GoLang; C/C++; SQL; TypeScript;
- Git; Docker; MySQL; PostgreSQL; MongoDB;Linux; Bash; LaTeX