

SKILLS

<b>Languages:</b> C/C++, C#, Java, Python, JavaScript, Bash, SQL, Flutter
<b>Operating Systems:</b> Windows, linux, MacOS
<b>Developer Tools:</b> Git, SSH, Linux, VS Code, Visual Studio, Docker, Servers{linux , macos , windows Servers}
<b>Methodologies:</b> Agile, Scrum, OOP, Functional Programming, DevOps, CI/CD, TDD

EDUCATION

<b>Arab Academy for Science, Technology and Maritime Transport (AAST)</b> <i>B.Sc. in Electrical and Computer Engineering;GPA: 3.3/4.00</i>	<i>Cairo, Egypt</i>
<b>ALX Software Engineering (Tuition sponsored by Mastercard)</b> <i>Comprehensive full stack development course</i>	<i>Cairo, Egypt</i>

EXPERIENCE

<b>Co-founder and CTO at YBM</b> <i>Oversaw the technical direction, managed website development, and various digital projects.</i>	<b>Startup</b> <i>Sep 2022 – Jan 2024</i>
<ul style="list-style-type: none"><li>Directed the strategic planning and execution of technology solutions, ensuring alignment with business goals and driving innovation in product development.</li><li>Led the development team in designing and deploying a scalable website architecture, incorporating modern web technologies to enhance user experience and operational efficiency.</li><li>Managed key projects from concept to deployment, focusing on optimizing performance and integrating advanced digital tools to stay ahead in competitive markets.</li></ul>	
<b>Intern at Arab Organization for Industrialization (AOI)</b> <i>Contributed to the manufacturing line for hardware components.</i>	<i>Jun 2023 – July 2023</i>
<ul style="list-style-type: none"><li>Assisted in the optimization of the hardware assembly line, implementing lean manufacturing principles to increase efficiency and reduce waste.</li><li>Collaborated with engineering teams to refine design specifications and ensure compliance with industry standards.</li></ul>	

PROJECTS

<b>Hyper Market Management System</b>   Java, MySQL, NetBeans, jBCrypt, FlatLaf <ul style="list-style-type: none"><li>Revolutionized market management with a comprehensive system for sales, purchases, and employee roles.</li><li>Implemented administrative, marketing, inventory management, sales, and user modules.</li><li>Used Java for backend development, NetBeans for GUI, and MySQL for the database.</li><li>Enhanced security with password management using jBCrypt and improved design using FlatLaf.</li><li>Packaged for easy installation using jpackage with an executable installer available in the releases.</li></ul>	<b>Jun 2023</b>
<b>Simple Shell</b>   C, Unix System Calls, GCC, Betty Coding Style <ul style="list-style-type: none"><li>Developed a UNIX command line interpreter as a group project, emulating basic shell functionalities.</li><li>Implemented functionalities including command execution, environment manipulation, and custom input handling</li><li>Incorporated system-level programming with Unix system calls like fork, execve, and waitpid to manage processes.</li><li>Utilized C for core development with strict adherence to the Betty coding style for clean and maintainable code.</li></ul>	<b>Dec 2023</b>
<b>Advanced Home Server Setup (for Personal Use)</b>   Docker, Homarr, Plex, Nginx, VPN <ul style="list-style-type: none"><li>Engineered an extensive home lab setup using Docker to deploy and manage a wide array of services such as media servers (Plex, Jellyfin), download clients (<b>Transmission</b>), and content managers (<b>Radarr</b>, <b>Sonarr</b>, <b>Prowlarr</b>)</li><li>Employed Tautulli and Kasm for detailed monitoring and secure, isolated browsing environments respectively, optimizing both user experience and operational security.</li><li>Set up Mealie for meal planning and Teslamate for data monitoring, demonstrating versatility in server utility beyond traditional media and file storage roles.</li><li>Reinforced network security with VPN integrations, safeguarding all data transmissions especially in privacy-sensitive applications like torrenting and external media access.</li></ul>	<b>Updated Dec 2023</b>

EXTRACURRICULAR ACTIVITIES

<b>ASI - AI Club (Head of Learning)</b> <i>Responsible for designing and implementing the curriculum and organizing AI-focused tournaments.</i>	<i>(AAST) Jan 2024</i>
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