Esslam Ashour

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EDUCATION

The University of Chicago | Chicago, IL

B.A. in Computer Science — Expected, June 2027

SKILLS

Programming Languages: Python, Go, JavaScript, Bash, HTML5, CSS
Frameworks and Libraries: Next.js, Node.js, React, Tailwind CSS, Bootstrap, pandas, matplotlib
Tools: Git, Linux, NPM, VS Code

EXPERIENCE

HPC Systems Administrator Assistant | UChicago RCC | Chicago, IL   **October 2023 - Present**
- Engineering software and scripts using Python and Bash, including a Slack support ticket system, improving efficiency and leading to a 82% reduction in manual administration tasks.
- Analyzing server rack and node data, leveraging matplotlib and pandas to visualize outage patterns, providing insights for enhanced outage diagnostics and resolution strategies, reducing average node downtime by 30%.
- Implementing automated system inventory checks using Python scripts, ensuring accurate and real-time hardware and software resource tracking, saving 10+ hours per week previously spent on manual inventory logging.

Freelance Software Developer | Phuket, Thailand   **August 2022 - February 2023**
- Developed 6 customized automation bots for Discord servers using Python, Go and Discord API, enhancing user experience and automating moderation tasks, resulting in a 58% decrease in manual tasks.
- Engaged in close collaboration with clients to gain a comprehensive understanding of needs, tailoring bots to diverse requirements and resulting in a 100% satisfaction rating from clients.

Founder | UWC Coding Community | UWC Thailand   **March 2022 - December 2022**
- Led weekly lectures in a collaborative effort with two co-founders, enabling over 20 students to achieve mastery in complex programming concepts using Python.
- Executed various projects, such as a video game, student database, and calculator, utilizing libraries such as sqlite3 and pygame to create functional applications, resulting in a deeper understanding of programming concepts.

PROJECTS

Quarantimo   **Node.js | Bootstrap**
- Designed and built an interactive platform using Node.js and Bootstrap connecting 60+ quarantining and on-campus students in UWC ISAK, providing border policy updates, 7 virtual events and a social/academic forum.
- Implemented responsive design using Bootstrap, ensuring a consistent user experience and a 94% user satisfaction rating.
- Worked remotely with a team from five geographic locations, displaying efficient time management and communication.

GoQuizCLI | *[Source Code](#)*   **Go | Git**
- Constructed a CLI quiz application in Go, utilizing concepts such as concurrent programming and file parsing.
- Ensured proper and explicit error handling, adhering to Go's principles and resulting in 70% reduced runtime errors.
- Managed project versions using Git, tracking over 20+ commits and allowing efficient code management.

Personal Website | *[Website](#)* **|** *[Source Code](#)*   **ReactJS | Next.js | Tailwind CSS**
- Leveraged Next.js in implementing server-side rendering, ensuring quick page loading and optimized navigation.
- Employed React to create modular and maintainable structure, allowing seamless integration of 6+ new features.
- Utilized Tailwind CSS for streamlined and consistent styling, resulting in a responsive and modern design across devices.