Kareem Elhemaly

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EDUCATION

University of South Florida   Tampa, FL
Bachelor of Science in Computer Engineering   *Aug. 2022 – May 2026*

EXPERIENCE

Math and Reading Tutor   March 2024 – Present
Kumon   *Wesley Chapel, FL*
- Instructed students in a wide range of mathematical concepts and reading comprehension strategies.
- Managed and updated student performance data using a cloud-based database.
- Designed and implemented weekly study plans and exam preparation schedules tailored to individual student needs.

AT&T Sales Associate   Nov. 2023 – Jan. 2024
Baymark   *Tampa, FL*
- Marketed and sold AT&T wireless lines and data plans to a diverse customer base.
- Assisted customers in creating new lines, upgrading existing lines, and troubleshooting technical activation issues.
- Delivered exceptional customer service to enhance user satisfaction and improve retention rates.

Lifegaurd   March 2023 – July 2023
Seven Oaks Clubhouse   *Wesley Chapel, FL*
- Ensured the safety of residents at the community pool by monitoring activities and enforcing safety regulations.
- Coordinated with team members to maximize productivity and promptly address residents' needs.
- Conducted regular safety inspections and maintenance checks on pool equipment, the pool area, and the slide to maintain high-quality standards.

PROJECTS

Huffman Code | *C++, Binary Search Trees, Stacks, Maps*   November 2024
- Implemented Huffman coding algorithm for lossless data compression.
- Constructed binary search trees to represent Huffman trees for encoding and decoding.
- Utilized stacks and maps to manage character frequencies and code assignments.
- Developed test cases to validate the accuracy and efficiency of the encoding and decoding functions.

Arabicly | *Python, Pandas, Tkinter, CSV*   October 2024
- Designed and implemented a user-friendly interface using Tkinter, enabling intuitive navigation and interaction.
- Integrated a CSV-based word database managed with Pandas, allowing efficient data handling and retrieval.
- Developed features such as word quizzes and flashcards to reinforce learning and assess user progress.
- Ensured cross-platform compatibility, making the application accessible on various operating systems.

BMI Calorie Tracker | *Python, Pandas, Taipy, CSS*   September 2024
- Implemented BMI calculation functionality based on user-provided height and weight data.
- Integrated the Taipy library to create an interactive and user-friendly interface for data input and result visualization.
- Developed algorithms to suggest daily calorie intake tailored to individual BMI results, promoting healthier lifestyle choices.
- Ensured the application is scalable and maintainable by adhering to best coding practices and modular design principles.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS
Frameworks: React, Node.js, Flask, Angular, Vue.js, Django, REST API
Developer Tools: Git, GitHub, Google Cloud Platform, VS Code, PyCharm, Eclipse
Libraries: pandas, NumPy, Matplotlib, tkinter, turtle, taipy, smtplib