Abduaziz Umarov

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EDUCATION

University of Central Florida   **Expected May 2028**

B.S. Computer Science

- GPA: 3.81
- Relevant Coursework: C Programming, Data Structures & Algorithms, Computer Hardware & Logic, Physics 1, Physics 2, Calculus 1, Calculus 2

TECHNICAL SKILLS

- **Languages:** C, Python, JavaScript, HTML/CSS
- **Technologies:** Azure, SSMS, Power BI

PROJECTS

Spelling Bee Solver, *C*   **September 2025**

- Created a program to solve a spelling bee puzzle by finding all the valid words from a dictionary given a specific set of letters and a center letter.
- Applied a **recursive permutation algorithm** to create all valid letter combinations and a **recursive binary search** to efficiently check words against a dictionary.
- Optimized the user's performance by incorporating comparison functions and effective **string manipulation** to manage large dictionary files.

NY Times Puzzle Archive, *C*   **August 2025**

- Developed a puzzle archive system to track players, puzzles, and scores, with a main focus on mastering complex **dynamic memory allocation** techniques.
- Implemented a data management solution using structs and pointers to handle nested **dynamic arrays**, ensuring efficient memory usage. Prevented leaks by freeing each allocated memory after.
- Designed a user-friendly interface for smooth interaction with the archive, enabling easy **data retrieval** and analysis of puzzle statistics.

Wordle Scoring, *C*   **July 2025**

- Formulated a program that analyzed a set of words by calculating and displaying a score for each word based on letter frequency.
- Integrated **input validation** for word length and character type, ensuring robust **data handling** and user-friendly error feedback for edge cases.
- Leveraged arrays to efficiently store and access letter frequencies and word scores, showcasing fundamental **data structure manipulation**.

EXPERIENCE

Server, *Caravan*   **Sep 2023 – Present**

- Provided excellent hospitality services to ensure a positive dining experience and building connections with regular customers.
- Utilized persuasive abilities to effectively upsell which increased the restaurant's gross sales, demonstrating an attentive understanding of client preferences.
- Recognized as **'Employee of the Month'** within three months, highlighting consistent exceeding of expectations and rapid adaptation to demanding environments.

INVOLVEMENT

Knight Hacks, *Member*   **August 2025 – Present**

- Participating in workshops and coding challenges to develop technical skills outside of coursework.
- Actively collaborating with peers on different projects to strengthen problem-solving abilities and teamwork.
- Regularly competing in hackathons and applying learned skills to generate innovative solutions under timed conditions.