

# Andrew Kostryba

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## EDUCATION

DePaul University | B.S. Computer Science - GPA: 3.97/4.0

Graduation Date: June 2025

## PROJECTS

### Fantasy Football Start/Sit Tool

- Built a full-stack web application with Rust and the Rocket API, allowing users to access and compare projections and statistics, facilitating informed decision-making for their start/sit decisions in fantasy football
- Leveraged Rust's ownership system and error handling mechanisms to ensure resource-effective and reliable code

### Wordle Guesser

- Developed an algorithm that solves the New York Times "Wordle" game in an average of 3.6 guesses
- Employed dictionaries to calculate positional letter probabilities and formulate the most optimal guesses

### Maze Game | Pac-Man Replica

- Created a client-side web app action maze game with AI enemy bots using WebAssembly and Canvas API

## COURSEWORK

### Object-Oriented Software Development

- Applied industry-standard design patterns such as Singleton, Factory, Builder, and Adapter to enhance software design and code reusability in Java
- Demonstrated proficiency in creating UML diagrams to visualize and showcase software designs effectively

### Database Systems

- Developed a robust understanding of modern database systems by acquiring expertise in fundamental concepts such as the relational model, PL/SQL, constraints, triggers, and transactions
- Applied database programming, working with semi-structured data, and using recursive SQL to tackle complex problems efficiently

### Algorithms

- Demonstrated proficiency in utilizing dynamic programming techniques to efficiently solve problems, leveraging substructure concepts to achieve optimal solutions
- Analyzed and evaluated the time and space complexities of divide-and-conquer, graph, and greedy algorithms to assess their scalability and real-world applications

### Computer Systems

- Enabled data transfer and network communication between multiple processes by using pipes and sockets
- Ensured smooth and reliable execution when implementing signal handling and creating multi-process and multi-threaded programs

## SKILLS

- Programming Languages:** Python, Java, C, Scala, WebAssembly, Rust, SQL, HTML/CSS
- Technologies:** Eclipse IDE, VS Code, Oracle SQL Developer, Git, APIs, Rocket, Microsoft Office, Teams, Zoom, Slack
- Languages:** English, Ukrainian - Native

## WORK EXPERIENCE

### Chipotle Mexican Grill | Crew Member

June 2022 - Present

- Enhanced team productivity by effectively communicating with co-workers and customers
- Recognized as Employee of the Month for consistent outstanding performance and dedication
- Consistently exceeded daily service goals through strong collaboration with co-workers

### Ukrainian School of Dance | Assistant Dance Instructor

September 2021 - Present

- Collaborated with dance instructors to teach choreography, contributing to the improvement of dance skills across various age groups
- Demonstrated leadership by managing choreography and show logistics efficiently

### DePaul Marketing and Content Crew | Member

September 2021 - May 2022

- Collaborated on engaging content development with DePaul University's Marketing and Content Team
- Led a team in constructing a social media plan to introduce a new President, successfully pitching the project to the Marketing and Content Team
- Worked in a team to create a video showcasing campus groups aimed towards incoming DePaul Freshmen for DePaul's social media platforms

## HONORS

- International Baccalaureate Diploma Recipient**
  - Received for demonstrating proficiency in a wide range of highly rigorous academic subjects
- Dean's List**
  - Achieved for all attended terms at DePaul University