

# Juan David Rosales

Greater Chicago Area | davidrosales.dev | github.com/jdrosales4

## EDUCATION

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### University of Wisconsin–Madison

Madison, WI

*Bachelor of Science in Computer Science*

*December 2025*

- Coursework: Object-Oriented Programming, Data Structures, Artificial Intelligence, Neural Networks, Cryptography, Linear Algebra
- Alpha Phi Omega – Beta Theta Chapter, Cybersecurity Club

## WORK EXPERIENCE

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### Configuration Technician I

July 2022 – July 2023 (40 Hrs/Wk)

*CDW*

*Vernon Hills, IL*

- Configured, updated, and maintained laptops, desktops and mobile devices according to customer specifications
- Worked extensively with internal systems including AS400, Config Central, and Microsoft Office/Google Suite
- Demonstrated leadership skills by training new hires basic to advanced configuration processes

### Cashier

April 2022 – July 2022 (40 Hrs/Wk)

*Whole Foods Market*

*Vernon Hills, IL*

- Resolved customer issues and provided product information to ensure a positive shopping experience
- Collaborated with team members during high-volume periods to efficiently handle customer needs
- Accurately operated registers, managed cash drawers, and processed debit and credit transactions

## PROJECTS

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### Combating Online Abuse | *Python, Machine Learning, NLP*

June 2025 – August 2025

- Built a Python-based system to classify six categories of online toxicity using the Jigsaw dataset
- Developed a full text preprocessing pipeline and trained Naive Bayes models achieving up to 99.4% accuracy
- Optimized the model to balance classification accuracy and inference speed for practical deployment

### Heuristic Search Solver for Sliding Tile Puzzles | *Python, A\*, State-Space Search*

January 2025 – May 2025

- Designed and evaluated multiple heuristic functions such as Manhattan distance and alternative baseline heuristics
- Analyzed heuristic admissibility and performance tradeoffs across solvable and unsolvable puzzle configurations
- Used priority queues and parent tracking to reconstruct optimal solution paths and measure search efficiency

## COMMUNITY & LEADERSHIP

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### Librarian

August 2024 – Present (20 Hrs/Wk)

*Gamers Library*

*Madison, WI*

- Provided customer support and product guidance to ensure positive in-store experiences
- Evaluated and graded collectible trading cards to determine condition and relative market value
- Trained new employees on daily operations, inventory handling, and standard procedures

### Pokemon Professor (Gold Rank)

August 2024 – Present

*The Pokémon Company International*

- Certified Gold Rank Professor responsible for rules enforcement and event operations
- Served as a floor judge at a regional tournament with approximately 3,000 players
- Organized and judged local Pokémon TCG and Video Game Championship Series events

## TECHNICAL SKILLS & INTERESTS

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**Software:** Java, JavaScript, JSON, HTML, CSS, SQL, Python, Kotlin, C/C++, Excel

**Concepts:** Data Structures, Algorithms, Artificial Intelligence, Machine Learning, Neural Networks, Natural Language, Debugging, Stack Tracing, Cryptography, Logic, Proofs

**Languages:** English, Spanish