MARTIN RIVERA

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EDUCATION

Washington University in St. Louis | St. Louis, MO   **May 2026**
Bachelor of Science in Computer Science, Minor in Finance
- Relevant Coursework: Rapid Prototyping (JavaScript, Python, PHP, SQL, MySQL, React), Data Structures and Algorithms (Java), Video Game Programming (C#), Data Science (Python), Object-Oriented Programming (C++), Artificial Intelligence (Python), Capital Markets & Financial Management, Investments

Barack Obama Male Leadership Academy | Dallas, TX   **May 2022**
- Awards: Valedictorian, National Honor Society, National AP Scholar with Distinction, National Hispanic Recognition Scholar, Dartmouth Alumni Book Club Award, World Affairs Council of Dallas/Fort Worth's 20 Under 20, State Visual Arts Scholastic Event

SKILLS

- Programming Languages: Java, JavaScript, Typescript, Git, Python, HTML, CSS, C++, C#, SQL, MySQL, PHP
- Software: Node.js, GitHub, React, Pandas, Unity, Eclipse, MongoDB, AWS, Apache, AVR Assembly, Arduino
- Languages: Fluent in Spanish and English

WORK EXPERIENCE

Washington University McKelvey Engineering | St. Louis, MO   **August 2023 – Present**
Teaching Assistant Section Lead
- Led sessions for 6+ students, guiding them through Java projects in CSE131: Introduction to Computer Science
- Provided one-on-one support to 300+ students during office hours, improving assignment completion by 15%
- Promoted to Section Lead, overseeing 50+ teaching assistants to ensure compliance and efficiency

Washington University Arts & Sciences Computing | St. Louis, MO   **August 2022 – Present**
Creative Lab Consultant
- Optimized digital tools and equipment selection, increasing resource efficiency by 20%
- Resolved technical issues with computers, printers, and projectors, reducing downtime by 15%
- Spearheaded hardware and software upgrades, improving inventory management by 10%

Dallas County | Dallas, TX   **November 2021 – December 2021**
Student Election Clerk
- Verified voter identification and processed 400+ registered voters during the election cycle
- Troubleshot and resolved software and printer errors, ensuring seamless ballot administration

Parkland Hospital | Dallas, TX   **June 2021 – August 2021**
Dallas Mayor's Fellows Intern
- Streamlined administrative data using Excel and PowerPoint, improving data accessibility by 20%
- Collaborated with medical staff to reduce patient wait times by 25%
- Presented findings to hospital leadership, influencing decision-making for resource distribution and operations

PROJECTS

Pathfinding Visualizer | JAVASCRIPT/HTML/CSS PROJECT   **December 2024 – January 2025**
- Built an interactive tool to visualize pathfinding algorithms such as A* and BFS/DFS
- Designed an intuitive UI to allow users to customize obstacles
- Optimized rendering performance for real-time visualization of algorithm execution

Command Line Interface | C++ PROJECT   **April 2024 – May 2024**
- Designed a Unix-like CLI with support for file system operations such as creating, deleting, and navigating directories
- Implemented command parsing, argument handling, and error management for a smooth user experience
- Developed a modular architecture to facilitate the addition of new commands and features

LEADERSHIP & ACTIVITIES

National Honor Society | Dallas, TX   **August 2021 – May 2022**
President
- Led a team of 6 executives and 60+ members, organizing campus events that raised $2,000+
- Collaborated with 3 student groups to promote academic excellence and community service