

Nicholas Cardoso

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Education

The College of New Jersey, BS in Computer Science

Expected May 2026

- GPA: 3.5/4.0
- **Coursework:** Software Engineering, Operating Systems, Computer Architecture, Analysis of Algorithms, Data Structures

Skills

Languages: C++, Java, Python, React, JavaScript, HTML/CSS

Technologies: AWS, Git, Linux, Full-Stack Development

Projects

Web Application - "SoundScout"

Nov 2024

- Enhanced the music discovery process for 20+ users by simplifying Spotify's vast library into an easy-to-use personalized interface, saving users an average of 10 minutes per session in finding new music.
- Developed a robust back-end using Node.js, efficiently handling OAuth 2.0 validation and real-time Spotify API calls to generate music recommendations.
- Designed an intuitive and responsive front-end with HTML, CSS, and JavaScript, providing a seamless user experience across devices.
- Leveraged AWS services including S3, Lambda, and API Gateway for scalable deployment, ensuring high availability and minimal downtime.

Course Project - "Roads and Libraries"

- Designed and implemented an efficient Union-Find algorithm that reduced computation time by 33% across datasets with over 100,000 nodes.
- Utilized path compression and union by rank to reduce time complexity, ensuring scalability for high-volume input cases.

Course Project - "Nano Shell"

- Created a simple command language interpreter in C using fork, execvp, and wait system calls to execute commands in a Unix-like environment.
- Gained hands-on experience with process management, including creating new processes and handling their termination, in a Linux C environment.

Experience

Shift Leader, Moe's Southwest Grill – East Windsor, NJ

May 2021 – Aug 2023

- Led and coordinated a team of 5+ employees, improving workflow efficiently by 15% and ensuring timely, accurate task completion while maintaining customer satisfaction.
- Troubleshooted and resolved issues with the Revel POS system in high pressure situations, minimizing downtime.

Extracurriculars

TCNJ in Madrid, Study Abroad Program – Madrid, Spain

June 2024 - July 2024

- Developed cross-cultural communication and problem-solving skills while navigating a new environment.

CS Alumni Mentoring Program, TCNJ – Ewing, NJ

September 2024 - Present

- Mentored by a software engineer through the CSAMP Mentorship program, enhancing technical skills and expanding professional networks.