Israel Alcántara

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EDUCATION

New Jersey Institute of Technology – Ying Wu College of Computing Newark, NJ

Bachelor of Science in Computer Science | GPA: 3.425 *May 2026*

EXPERIENCE

Office Assistant Sept. 2024 – Present

Educational Opportunity Program (EOP) *Newark, NJ*

- Spearheaded office operations and student engagement by efficiently managing front desk activities, coordinating over 15 appointments weekly using a scheduling website, and ensuring accurate and confidential record-keeping.
- Streamlined document preparation, data entry, and office organization using Microsoft Excel, boosting operational efficiency by at least 30%.

Delivery Technician/Lab Technician Sept. 2022 – Present

Media and Technology Support Services (MTSS) *Newark, NJ*

- Collaborated with a team of five to standardize audiovisual equipment setups and implement routine maintenance protocols, boosting reliability by 40% across more than 100 lectures annually.
- Effectively diagnosed and resolved technical issues in classrooms and labs, utilizing systematic troubleshooting techniques to identify problems and implement solutions, leading to a 30% reduction in equipment downtime.

Event Coordination Director Sept. 2024 – Present

Society of Hispanic Professional Engineers (SHPE) *Newark, NJ*

- Led the planning and execution of 12+ networking and professional development events using Google Sheets and volunteer coordination websites and forms, increasing participation by 50% and reducing planning time by 20%.
- Developed strategic event calendars and managed volunteer teams to execute events efficiently, resulting in a 20% reduction in planning time and increased attendee satisfaction.

PROJECTS

Compiler for SFort95 Language | *Visual Studio Code, Git* | **C++** March 2024 – April 2024

- Developed a full SFort95 compiler with lexical analysis, parsing, and interpretation, supporting declarations, expressions, and control structures per Fortran95 standards.
- Built a state-based lexical analyzer to detect tokens like identifiers and operators, generating token frequency reports and error messages for unrecognized lexemes.
- Implemented a recursive-descent parser with operator precedence and syntax checks, offering clear error reporting for syntax issues like missing delimiters or undefined variables.
- Designed an interpreter with a symbol table and runtime checks to ensure expression accuracy, control flow, and error handling for cases like division by zero.

RhythmiQ: Cross-Platform Music Tracker | *Flutter, Spotify API* | Dart, Node.js, Firebase Nov. 2024 – Present

- Developing a multi-platform music discovery app with Flutter, allowing users to search for artists and view recent releases within 30 days across iOS, Android, and web.
- Integrating Spotify API to provide song snippets, genres, and release timelines, with interactive previews for albums and songs, improving user engagement.
- Designing responsive UI components with Flutter for consistent cross-platform functionality, displaying song and album details like duration, release date, and artwork.
- Utilizing Node.js and Firebase for backend to handle efficient API data retrieval, user sessions, and real-time updates, ensuring seamless user experience across devices.

KEY SKILLS

Programming Languages: Python, Java, C/C++, C#, Bash, HTML, JavaScript, CSS, Dart
Frameworks & Tools: Git, Google Collaboration, VS Code, PyCharm, IntelliJ, Eclipse, Flutter, Firebase, Node.js
Libraries: Pandas, NumPy, Matplotlib
Languages: Fluent in English and Spanish
Relevant Coursework: Roadmap to Computing | Intro to Computer Science I | Data Structures & Algorithms | Programming Language Concepts | Information Design Techniques | Foundation of Computer Science I | Intensive Programming in Linux | Introduction to Data Science | Probability & Statistics