Israel Alcántara

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https://iaalcantara17.github.io/portfolio-website/

EDUCATION

New Jersey Institute of Technology   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*
- Enhanced 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 Office, 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

Lexical Analyzer for SFort95 Language | *Visual Studio Code, Git* | **C++**   March 2024
- Implemented state-based transitions to recognize multi-character tokens like identifiers and constants.
- Error detection and reporting for unrecognized lexemes using error states.
- Supported various language-specific constructs such as comments and string literals
- Produced detailed token reports including frequency and types of tokens identified.

Recursive-Descent Parser for SFort95 Language | *Visual Studio Code, Git* | **C++**   April 2024
- Implemented functions for each syntactic rule, supporting constructs like variable declarations, assignment statements, and control structures (IF, PRINT).
- Managed error reporting with descriptive messages for common syntax errors such as missing semicolons or undefined variables.
- Integrated operator precedence handling, including unary and binary operations with correct associativity rules.
- Parsed and validated expressions, ensuring type compatibility between operands.

Interpreter for SFort95 Language | *Visual Studio Code, Git* | **C++**   April 2024
- Built a symbol table to track variable types and values, ensuring correct type conversions and assignments.
- Evaluated arithmetic and relational expressions, applying precedence and associativity rules.
- Implemented run-time checks for error handling, including division by zero and type mismatches.
- Managed control flow with support for conditional statements and block execution.

KEY SKILLS

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