

Israel Alcántara

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EDUCATION

New Jersey Institute of Technology

Bachelor of Science in Computer Science | GPA: 3.425

Newark, NJ

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, such as error handling for illegal operations, like 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 | Calculus I | Calculus II | Probability and Statistics

Programming Languages: Python, Java, C/C++, C#, Bash

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: Pandas, NumPy, Matplotlib

Languages: Fluent in English and Spanish