

# Yahil Corcino Valdez

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## EDUCATION

<b>New Jersey Institute of Technology</b> <i>B.S. Computer Engineering, Minor in Applied Mathematics</i>	Newark, NJ Sep 2024 – Exp. May 2027
– Relevant Coursework: Data Structures & Algorithms (C++), Digital Logic, Microprocessors, Circuits & Systems I/II, Differential Equations, Multivariable Calculus, Probability & Statistics, Physics I & II	

## EXPERIENCE

<b>Software Engineering Intern</b> <i>Society of Hispanic Professional Engineers</i>	Dec 2025 – Present
– Served as principal engineer for a production iOS app, contributing <b>120+ hours</b> and leading core system development during a 3-week sprint, deploying to 200+ users.	
<b>C++ Tutor</b> <i>New Jersey Institute of Technology</i>	Sep 2025 – Present
– Provide one-on-one instruction in C++ focusing on data structures, memory, pointers, and algorithms. – Develop targeted exercises & quizzes emphasizing time/space complexity and correctness under constraints.	
<b>Computer Science Teaching Assistant</b> <i>Educational Opportunity Program (EOP) – NJIT</i>	Jun 2025 – Aug 2025
– Led twice-weekly recitations for a cohort of 36 students, teaching programming fundamentals and algorithmic problem solving through live coding. – Provided <b>16+ hours/week</b> of one-on-one tutoring, reinforcing programming fundamentals and debugging skills.	
<b>Data Analyst</b> <i>Plot Pointe</i>	Jul 2023 – Aug 2024
– Analyzed performance metrics across large-scale datasets to identify patterns and optimize content strategy. – Applied statistical analysis to engagement data, driving <b>300M+</b> Instagram views in 6 months. – Operated in a fast-paced startup environment, independently identifying problems and shipping data-driven solutions with minimal guidance.	

## PROJECTS

<b>AI-Powered Data Center Optimization</b>   <i>Python, Optimization, Machine Learning</i>   <b>1st Place – Claude Hackathon</b>	
– Modeled data center thermals as a constrained optimization problem, balancing capacity, cost, and failure risk.	
<b>Smart Trashcan Monitoring System</b>   <i>C++, Embedded Systems, Flask</i>   <i>ECE Dept. Showcase Nominee</i>	
– Built an autonomous, event-driven IoT system using ultrasonic sensors to detect fill levels and transmit telemetry. – Integrated ESP32-S2 Mini with AWS-hosted Flask backend for monitoring across a campus-wide network. – Improved power consumption by 550% from V1, extending projected battery life to 1.7 years.	
<b>LEADERSHIP &amp; SERVICE</b>	

<b>Director of Outreach</b> <i>IEEE – NJIT Student Branch</i>	Mar 2025 – Present
– Lead outreach for technical workshops and industry events, increasing student engagement in ECE programs. – Grew chapter membership by 120+ students while increasing average event attendance by 34%.	
<b>TECHNICAL SKILLS</b>	

<b>Languages:</b> C++, Python, JavaScript
<b>Systems &amp; Tools:</b> Linux, Git/GitHub, AWS, SQL, MongoDB, Flask, Microcontrollers, KiCad
<b>Concepts:</b> Data Structures & Algorithms, Graph Algorithms, Optimization Problems
<b>Libraries &amp; Frameworks:</b> NumPy, Pandas, TensorFlow, React Native, Expo