

ALEJANDRO A. DIAZ MEDINA

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EDUCATION

University of Puerto Rico – Mayagüez (UPRM), Mayagüez, PR

B.S.E. in Software Engineering, Minor Certificate in Project Management

Expected Graduation: May 2026

Relevant Coursework: Advanced Programming (OOP), Data Structures, Computer Architecture I & II, Software Requirements, Programming Languages, Operating Systems, Database Systems, Software Testing, Computer Networks, Software Design, Machine Learning, High-Performance Computing, Analysis of Algorithms, Foundations of Computing

WORK EXPERIENCE

Jacobs Engineering – *Software/Data Engineer Intern* | Guaynabo, PR

Jun 2025 – Aug 2025

- **Automated manual tracking** of employee work hours by building a **Palantir Foundry dashboard**, integrating Oracle and internal approval datasets; enabled resource reallocation, error reduction, and management oversight (~5 users).
- **Developed project timeline monitoring tool** in Python + pandas to visualize schedules, flag data inconsistencies, and improve project oversight; recognized by senior leadership.
- **Created a timesheet PDF extractor** that organized employee submissions, added a simple interface, and packaged it as an executable for non-technical staff.

Jacobs Engineering – *Software/Data Engineer Intern* | Guaynabo, PR

May 2024 – Aug 2024

- Designed and tested a response app for a private water company using **Palantir Foundry** for data management and transformation.
- Built an **NLP-powered chatbot** to query company procedures from PDFs, improving compliance and accessibility.
- Cleaned, transformed, and validated large datasets to ensure accuracy and integrity.
- Collaborated with developers to enhance functionality, conduct QA testing, and optimize performance.
- **Gained exposure to databases, and Palantir Foundry.**

Nagnoi LLC – *Data Analyst Intern* | San Juan, PR

May 2023 – Jul 2023

- Partnered with the **PR Department of Education** to deliver dashboards and insights for school resource allocation.
- Conducted **SQL-based data retrieval** and statistical analysis for reporting.
- Built dashboards with **Power BI, SQL, and Excel** to track KPIs.
- Contributed to peer code reviews, ensuring high-quality deliverables.

PROJECTS

- **Hours-Tracking Dashboard (Palantir Foundry)** – Automated tracking of approved vs. worked hours, enabling resource reallocation, error reduction, and management oversight.
- **Timesheet Extractor (Python)** – Processed and organized employee timesheet PDFs; delivered as a simple interface with an executable for non-technical staff, reducing manual effort.
- **ChatBot (Palantir)** – NLP-powered chatbot to query company procedure PDFs, streamlining internal workflows.
- **Snake Game (Pygame)** – Modular OOP-based game with real-time graphics and bug fixes for improved gameplay.

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, C, Java, TypeScript, JavaScript, SQL, HTML, CSS, MATLAB
- **Frameworks & Libraries:** React.js, React Native, Node.js, Pandas, NumPy, Matplotlib, scikit-learn, TensorFlow, OpenCV, NextJS, NestJS, Matplotlib, Tailwind CSS
- **Databases:** MySQL, Firebase, Supabase, PostgreSQL
- **Tools & DevOps:** Git, GitHub, Visual Studio Code, Jupyter Notebook, Google Colab, Eclipse, Docker, Figma, Palantir Foundry, Linux, Mac, Windows, Power BI, Excel
- **Languages:** Fluent in Spanish and English