

PABLO CESAR BEDOLLA ORTIZ

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EDUCATION

Illinois Institute of Technology

B.S. Mechanical Engineering

Chicago, IL

Aug 2024 - May 2027

Dominican University

B.S. Mathematics, Minor in Physics *GPA: 3.8*

River Forest, IL

Jan 2023 - May 2027

Columbia College Chicago

(Transfer) B.S. Computer Programming *GPA: 3.8*

Chicago, IL

Sep 2021 - Dec 2022

EXPERIENCE

NASA Jet Propulsion Laboratory

(398D) Instrument Operations Engineering, Internship

Pasadena, CA

Jun 2024 - Present

- Developed Python algorithms with NumPy and Pandas for telemetry data extraction and analysis, optimizing flight operation procedures and enhancing troubleshooting and monitoring of the Advanced Microwave Radiometer for Climate (AMR-C) External Supplemental Calibration System (SCS) instrument aboard the Sentinel-6 satellite.
- Refactored a Sentinel-6 test-telemetry analysis tool into a modular and shareable framework, enhancing graphical and statistical analysis of telemetry data for effective operational visualization and monitoring.
- Extended internship through NASA's MUREP to focus on real-time operational data, further optimizing flight operation procedures for Sentinel-6 instrument systems.

Intuit Credit Karma

Software Engineer Intern

Ballantyne, NC

May 2023 - Aug 2023

- Backend Engineer using Node.js, TypeScript, JavaScript, and YAML. Improved testing efficiency with Mocha, Jest, and Sinon while migrating testing frameworks and supporting a major app iteration.
- Refactored assigned repositories to migrate unit test frameworks, create new unit tests for full coverage.
- Intern on Core-Product and Experimentation team within an Agile environment to drive project success.

Columbia College Chicago

Computer Programming Tutor

Chicago, IL

Sep 2022 - Dec 2022

- Guided students in programming languages such as C, C++, HTML/CSS, JavaScript, and Python.
- Engineered a Python web scraper with Selenium to unveil vulnerabilities in the institution's social networking system and collaborating with vendors for resolutions.
- Facilitated departmental hardware migrations and managed equipment maintenance, ensuring seamless operations and optimal performance across the technical infrastructure.

ACTIVITIES AND RESEARCH

NASA L'SPACE Academy

MCA Student, Team Chief Scientist

Virtual

Jan 2024 - May 2024

- Lead mock-simulated scientific research for Mars rover instrumentation and command data handling. Oversaw mission milestone development for MDR, MCR, PDR, and SRR papers.
- Earned certifications for teaming skills, requirements analysis, project management, system engineering in aerospace and risk management for mission success.

NASA MUREP MINDS

Python, Arduino, Electrical Engineering

University

Oct 2023 - May 2024

- Lead a private, 10-student, 3-faculty research team for NASA's Artemis challenge and conceptualized fixed autonomous LIDAR data collection device prototype for slope and elevation modeling.
- Secured \$1,500 in funding from NASA to support research initiative following a research proposal. Second place in Technical Paper Award.

SKILLS

Technologies: Python, C#, C/C++, Shell Scripting, TypeScript, SQL, JavaScript, Git, Unix, Linux, Jupyter
Libraries: NumPy, Pandas, Plotly, Matplotlib, H5PY, TensorFlow, Scikit-Image, Mocha, Jest, Sinon, Dask
Languages: English (Fluent), Spanish (Fluent), Russian (A1)