

Alberto Ian Cruz Salamán

Student @ University of Puerto Rico Mayaguez

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Fully bilingual (English/Spanish) junior year Computer Science and Electrical Engineer student. Entry-level experience in coding and robotics. Highly interested in internship opportunities that can integrate and strengthen my engineering knowledge and creative problem-solving skills.

Academics:

University of Puerto Rico Mayagüez Campus- Mayaguez, PR August 2018- June 2023 (Expected)

- Bachelor of Science in Engineering (BSE) – Double Major: Computer Science and Engineering & Electrical Engineering
 - GPA: 3.74
- Approved coursework: *Intro. Programming, Advanced Programming, Computer Fundamentals, Data Structures, Circuit Analysis I, Programming Languages, Circuit Analysis II, Electronics I, Logic Circuits, Intro to Software Engineering, Microprocessors and Embedded Systems, Operating Systems, Databases (ongoing), Computer Networks (ongoing), Algorithm Design (ongoing)*

Specialized School of Fine Arts -Escuela de Bellas Artes de Carolina- Carolina, PR August 2011- May 2018

- High School Diploma with a specialization in Digital Art (6 courses, 3 academic years)
- Member of the National Hispanic Recognition Program of the College Board
- Coursework included: *Ceramic, Drawing, Painting, Sculpture, Printing & Photography Courses*

Experience:

- **University of Puerto Rico Mayaguez Campus: ML/AI Malware Patterns Research** March 2021-Present
 - Implementing supervised ML/AI algorithms to recognize malware patterns in distributed code
 - Evaluate and improve current ML/AI algorithms with prospects of implementing unsupervised/neural networks under the mentorship of Dr. Nayda G. Rolón.
- **University of Puerto Rico Mayaguez Campus AON – VEX Robotics Team (College Level)** August 2019- Present
 - Telemetry Programming Division
 - Develop software to receive the output of the different motors and sensors in a defined time period.
 - Analyze graphs generated by the software output to assess the performance of the individual components in the VEX Robot.
 - Provide feedback to the mechanical division on which component to fine-tune, troubleshoot and improve the overall performance.
 - Improve the accuracy of the robot's location map to further improve the autonomous algorithms.
- **University of Puerto Rico Mayaguez Campus Data Structures Course Teacher Assistantship** January 2020 – June 2020
 - Explain, design, and send lab tasks and expectations to students after being approved by Dr. Juan O. Lopez.
 - Monitor tests, tutoring and reinforce student's skills during office hours and class hours.
 - Correct assignments and give feedback.

Skills and Abilities:

- **Programming**
 - *Advanced in Python, Java, C++/C, Windows OS, Ubuntu OS*
 - *Intermediate in Scala, MySQL/PostgreSQL, JavaScript (TypeScript), HTML & CSS*
 - *Novice in Assembly Language, GoLang (Google), Arduino/RaspberryPI design*
- **Digital Art**
 - *Advanced in Adobe Photoshop, Adobe Illustrator, Sketchbook Pro & Krita, Adobe Premiere, After Effects*

Professional Affiliations & Events:

- **Events**
 - **Chevron's UPRM Powerthon: ¡Vamos Digital!** August 2020 – September 2020
 - Award: 1st Place Overall
- **Professional Affiliations**
 - **Institute of Electrical and Electronics Engineers (IEEE)** August 2018- Present
 - IEEE Scholar Program Mentee 2018
 - Scholar Program Mentor 2020
 - **Society of Hispanic Professional Engineers (SHPE) - Member** August, 2018- Present

Volunteer and Leadership Roles

- University of Puerto Rico Mayaguez Campus Athletics - Judo