Daniel A. Mestres Piñero

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Education

University of Puerto Rico - Mayaguez — Mayaguez, PR
BS Computer Engineering *GPA: 3.12* — Aug 2015 - May 2023

Work Experience

UPRM Vehicle and Terrain Department — Mayaguez, PR
Aug 2016 - May 2018

- Converted paper receipts to excel and a proprietary software to log expenses and to keep a record of monetary transactions. Also did general work such as answering phones and maintaining and sorting paper files.

Skills

Programming Languages:	Java, Python, Embedded C, Verilog, Javascript
Database Development:	PostgreSQL, Heroku
Embedded Applications:	MSP430, Arduino
Software Modeling:	Alloy
Project Management:	Agile

Projects

Minecraft Mod *Java, Eclipse IDE* — https://github.com/DanielMestres/InfinityMod
A Minecraft mod developed collaboratively as a project for the Advanced Programming class of UPRM.

HomeService Website *Django, React, Alloy*
https://github.com/uprm-inso-4101-2021-2022-s2/semester-project-team-11
A prototype website, implemented utilizing Django and React as a backend and frontend respectively. Its was developed collaboratively employing the Agile project management methodology.

Email Service Website *Flask Framework, React, PostgreSQL*
https://github.com/DATABASE-FALL-2022/db-mail2022-el-suicide-squad
A prototype email service developed collaboratively, utilizing the Flask framework and PostgreSQL to implement the backend and React to implement the frontend.

32-bit ARM Pipelined Processing Unit Simulation *Icarus Verilog*
https://github.com/DanielMestres/ICOM4215-Computer-Arquitecture
Partial simulation of an ARM Processing Unit utilizing the Verilog hardware modeling language.

Bicycle Safety System *Arduino IDE* — https://github.com/DanielMestres/Bicycle_Safety_System
A safety system, with multiple distance and hall effect sensors, implemented with an Arduino Mega 2560.