Dario Martinez

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EDUCATION

Western Institute of Technology and Higher Education   GPA - 9.82/10
BS. in Computer Systems Engineering   Expected graduation date: May 2023

EXPERIENCE

Creator   **Interns GDL Website**   01/21-Today
Built a website for a student organization with **React.js** using **JavaScript**.
- Built a class to interact with a REST API of a third party service that is used as a content manager system.
- Implemented an algorithm to optimize loading, minimizing the API calls by storing previously requested data.
- Designed the landing page and UI components in a responsive and mobile friendly way using **CSS** and **Bootstrap**.

Co-creator   **Open API Docs**   03/20-08/20
Built a website to host and share Rest API documentations using **JavaScript** and **jQuery** as an extracurricular project.
- Built a **Node.js** web server using express, to route the endpoints of the app dynamically to users and projects.
- Developed a library to adopt the MVC design pattern on the front-end with recyclable components.
- Implemented reading and writing to the database, understanding promises and asynchronous JavaScript.
- Designed the landing page and user interface components in a responsive and mobile friendly way.

Co-creator   **Classification and Clustering Java Library**   05/20
Built a **Java** library, with built-in and ready-to-use clustering and classification models with AI as a school project.
- Implemented configurable Neural Network models with different architectures, using OOP principles.
- Used dynamic programming to implement the backpropagation algorithm, which is how the network learns.
- Developed and tested classes to facilitate vector and matrix operations and the reading of CSV files as matrices.

Co-creator   **Data Structures Programming language**   11/19 - 12/19
Developed a programming language using **C** with built-in data structures as a school project.
- Researched and learned the basics of language creation and taught my teammates what I learned.
- Developed the data structures that are natively included such as maps, sets, lists, stacks, and queues.
- Built a parser from scratch which given a list of tokens creates sentences as syntax trees and functions as blocks.
- Implemented a function executes the instructions in each sentence, solving the syntax trees.

Creator   **Neural Network to identify types of animals**   11/19 - 12/19
Built a single layer neural network that given some data identifies mammals, birds, and fish using **Python**.
- Researched and learned the basics of neural networks and the gradient descent method to train the network.

Software Engineer Intern   **Handy.la**   08/17 - 08/18
Worked at a small company trying and testing an external API to help them decide if the API's cost was worth it.
- Implemented and tested a function for the backend using Groovy to request and process the results of an API.
- Built a feature to show the results of the API call to the user, using images and drawings with **JavaScript**.
- Learned about native and cross-platform mobile development using React Native and Swift to use the API.

Technical Skills: Structured Programming, OOP, Asynchronous Programming, JavaScript, Node.js, C/C++, Python, Java.

EXTRACURRICULARS AND LEADERSHIP EXPERIENCE

- Founder and leader of **Interns GDL**, an organization to help students to prepare for internships, 10/19-Today.
  - Design and teach the interview preparation course and organize events such as hackathons and workshops.

- Got to the fifth and final level of the **Google Foobar** secrete hiring challenge using **Python**, 06/20.

- Member of the **Competitive Programming Club** at ITESO, where we prepare for **ICPC** contest, since 09/19.

- Participated in an **immersion program in Silicon Valley**, CA, as a price for an innovation contest in 07/17.
  - Attended talks about innovation, entrepreneurship, and work culture at Google, Stanford University, and others.

- Selected as one of the 50 winners of a 70% scholarship for **Academic Excellence** at ITESO, 2018.