Mauricio Carrasco Ruiz

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Education

BSc in Computer Science   2017-2022

National Autonomous University of Mexico (UNAM),
Mexico City, Mexico.

Graduated with a grade of (9.77/10), corresponding to a 4.0 GPA.
In process of presenting my thesis defense.

Experience

Work

Jr. Back-End Developer
National Preparatory School No. 6 "Antonio Caso"
March 2017 - October 2017

- Volunteered for the development and maintenance of the web application responsible for the management of schedules and administration of subjects and schools.
- Used technologies like **JQuery** and **MySQL** for the database administration.

Jr. Full-Stack Developer
School of Engineering, UNAM
June 2016 - November 2016

- Development and maintenance of an administration system for the *XXXVII International Book Fair of the Palace of Mines* using the framework **Laravel PHP**.
- Responsible for the views that were shown to the client as well of its proper functionality with the database.

Academic and Investigation Projects

Tools for the Computational Handling of Graphs
January 2022 - January 2023

- Implemented several algorithms on **Java**, **Python**, and **Go** to work on Graph Theory.
- Unit testing development.
- Researched and designed optimal solutions to solve problems like the tree isomorphism problem and the doubly lexical ordering.

Heuristics for Non-Deterministic Problems
December 2020

- Implemented heuristics like the simmulated annealing and the ant colony on **C++**.
- Found good solutions on instances of problems like Travelling Salesman Problem (TSP), Generalized Assignment Problem (GAP), and the Minimum Vertex Cover Problem.

Skills

Programming Languages

- **Java**
- **Python**
- **JavaScript**
- **C/C++**
- **PHP**
- **Go**

Personal Skills

- Adaptive.
- Disciplined.
- Responsible.
- Self-learner.
- Time management.

Social Skills

- Empathic.
- Good communication.
- Problem solving.
- Team player.

Miscellaneous

- Web development.
  (**HTML**, **CSS**, **Node.js**).
- Database administration.
  (**Postgres**, **SQLite**, y **MySQL**).
- Frameworks.
  (**Django**, **Laravel PHP**, **Sails.js**).
- Version control with **Git**
- System administration with **Unix/Bash**.
- More than 2 years teaching programming and mathematics subjects at UNAM.

Languages

- Spanish (Native Speaker)
- English (C1)