Abdon Morales

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EDUCATION

- **The University of Texas at Austin** — Austin, USA
  Bachelor of Science, Economics and Computer Science (GPA: 3.12/4.00) — *August 2023 - present*
  Certificate in Programming and Computation (Computer Science)

  ○ Relevant Coursework: Calculus I and II (M 408C/D), Introduction to Microeconomics (ECO 304K) and Macroeconomics (ECO 304L), Introduction to Programming (CS 312), and Matrices and Matrix Calculations (M 340L), and Introduction to Probability and Statistics (SDS 321).

SKILLS

- **Languages**: Spanish (Fluent), German (Beginner)

- **Frameworks/Tools**: LaTeX(intermediate), Git (intermediate), R (intermediate), Java (intermediate), Python (intermediate), C (basic), C++ (basic), Apple iWork (intermediate), Microsoft Office (intermediate), and Operating Systems (intermediate).

- **Soft Skills**: Critical Thinking, Problem-Solving, Teamwork, Conflict Resolution, and Work Ethic.

EXPERIENCE

- **Morales Research Incorp.** — Austin, Texas, USA
  Founder and Lead Engineer — *August 2019 - Present*
  - ○ As team lead or lead engineer, I'm responsible in keeping track of software patches, merging commits to production, bug management, and developing software as a team.
  - ○ Managed the company's objectives and goals to reach both fiscal and software development targets set on basis of the project(s).

- **Code@TACC: Connected** — Austin, Texas, USA
  Camper (Student) — *August 2022*
  - ○ Created electrical circuits using breadboards along with collecting live data at the Brackenridge Field Laboratory.
  - ○ Learned and used Python beginner courses to code the breadboard's circuits, LEDs, Enviro+ sensors, and learned how to use a Raspberry Pi 400.

- **Introduction to Python by CAMEE and UTSA** — Austin, Texas, USA (Remote)
  Camper (Student) — *July 2022*
  - ○ Developed knowledge on how a programming language works and how it can interact with a computer.
  - ○ Gained solid foundation of Python's usage particularly for general computing and statistical data modeling.

PROJECTS

- **Graphy**
  Tools Used: Python, PyQt6, matplotlib, and sympy (mathematical python libraries)
  - ○ A simple GUI graphing calculator created in Python to graph simple functions and expressions such as $x^2, \sqrt{x}, |x|$, and so on within its capabilities through the use of Python's mathematical libraries.

- **TEX-M**
  Tools Used: LaTeX
  - ○ The purpose of this project is to create a college-specific (department-specific) notetaking template in LaTeXfor the College of Natural Sciences (Mathematics and Computer Science) and for the Cockrell College of Engineering.

- **Personality Quiz**

  Tools Used: Java and Java's built-in classes (File, FileNotFoundException, and Scanner)
  - A program to read a file with raw data from a Keirsey personality test and print out the results.
  - This program was part of an assignment for relevant coursework (CS 312) at the University of Texas at Austin.

- **PDF Compiler**

  Tools Used: Python, PyQt5, and Python's PDF libraries
  - The purpose of this project was to get multiple PDF (these PDFs can be a single to multiple pages) to merge them into one single combined PDF without having to go to some unknown website to merge PDFs.

LEADERSHIP & COMMUNITY INVOLVEMENT

- **ACM (Association of Computing Machinery)**   Austin, Texas, USA

  Student Member   *September 2023 - Present*
  - A current student member learning how to use basic computing skills on a day-to-day bases, along with participating in hack nights, general meetings, or fun events.
  - The organization hosted hackathons (sometimes cohosted with the other CS orgs and clubs), Professor and Pancakes, CS 101 (Intro to Linux and Git), and so.

- **HACS (Hispanic Association of Computer Scientists)**   Austin, Texas, USA

  Student Member   *January 2024 - Present*
  - The organization hosted important events for students for CS and Elements Cert. students such as study night (sessions), general meetings with internships with FAANG companies, and other club-related activities.