

# Carlos Cabada

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Ccabada.github.io/portfolio



GitHub



LinkedIn

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## EDUCATION

### The University of Texas at El Paso (UTEP)

*Bachelor of Science in Computer Science*

Expected Graduation Date: May 2021

Overall GPA: **2.90/4.00**

Program GPA: **2.84/4.00**

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## PROFESSIONAL EXPERIENCE

### UTEP Enterprise Computing (IT)

*Quality Assurance Engineer*

**February 2019 – Present**

- Responsible for testing custom applications to mitigate risks and communicates results to technical and non-technical colleagues.
- Provided technical assistance in troubleshooting and correcting performance problems; responded to inquiries regarding errors, problems, or questions.
- Responsible for black box testing web applications. This includes functionality, Cross-Browser, layout, authentication, authorization, front end validation and back end validation.

### UTEP College of Engineering – K-12 Outreach

*ExciTES Summer Institute Coordinator*

**May 2018 – August 2018**

- Planned and executed successfully, with a budget in mind, 1-week different engineering curriculums for 3<sup>rd</sup>-5<sup>th</sup>, 6<sup>th</sup>-8<sup>th</sup>, 9<sup>th</sup>- 11<sup>th</sup> graders.
- Created and Reviewed the schedule for ExciTES 2018.
- Worked with 13 ExciTES interns, and delegated modules to be exposed to students.

### UTEP College of Engineering – K-12 Outreach

*Engineering Ambassador*

**January 2018 – August 2018**

- Gave tours of the College of Engineering to groups of 10-15 students and exposed them to career options.
- Successfully planned and carried out a budget for Spring 2018.
- Consistently updated and recorded new equipment on an inventory log.

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## TECHNICAL EXPERIENCE

### Java

- Natural Language Processing (NLP) – Developed an algorithm that sorts a database of 400,000 words using their similarity embeddings.
- Expanded the NLP algorithm to cluster similar words using a disjoint set forest and heap, given  $n$  unions and  $m$  words per set.
- Unofficial PC Part Picker application used Jsoup to gather information on products from the actual website.
- JavaFX Application, Price Finder, used MVC model, saves an item's details and calculates the price change percentage.

### Python 3

- Developed an application that uses the Sha256 hashing algorithm and uses brute force to find passwords from a given text file with usernames, salt values, and hashed values.
- Developed an application that automates the process of looking up users in a video game leaderboard (Fortnite, PUBG).
- Developed an application that uses the Open-CV to detect faces and then sort them in folders for each person.
- Developed an application that uses the Open-CV and generates a "greenscreen" around the object.

### C

- Developed a user shell for a Unix operating system. It mimicked some of the behaviors of the bash shell.
- Developed a snake like LCD game for the MSP430. I used several libraries like timerLib, p2SwLib, lcdLib, and shapeLib.
- Developed a Tokenizer that had a history function that would store previously tokenized strings.

### PHP

- Developed a system for a supermarket, in which user inputs name and PLU for every shipment, adding onto the store's inventory.
- As a team, classmates and I, developed a system for a CAHSI, in which user Administrators and Advocates were able to create reports of students' demographics. We used MySQL to store data, and PHP for the backend of the application.

### Web Development

- Developed a minimalistic portfolio using HTML, CSS and Bootstrap.

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## SKILLS

- Proficient Python3, Java, JavaFX, Java FXML, HTML, CSS, SQL, C
  - Working knowledge of PHP, Bash, Prolog, Haskell, Verilog, VHDL, Xilinx ISE, Selenium.
  - Learning C#, .Net.
  - Strong documentation skills.
  - Strong communication skills.
  - Bilingual in Spanish and English (Verbal and Written).
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