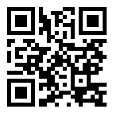
****GitHub - github.com/ccabada linkedin.com/in/carlos-cabada-489507153/ -



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Ccabada.com/portfolio

**Carlos Cabada**

**EDUCATION**

**The University of Texas at El Paso (UTEP)** Program GPA: **2.96/4.00**

*Bachelor of Science in Computer Science* Expected Graduation Date: May 2021

*M.S. Software Engineering with Concentration in Secure Cyber-Systems* Expected Graduation Date: May 2022

**PROFESSIONAL EXPERIENCE**

**NASA NIRO UTEP Center for Space Exploration Technology Research (CSETR)**

*Student Research Assistant – Software Engineer* **August 2020 – Present**

• Responsible for improving and adding features to a data visualization web application that is built in Angular JS and ASP.Net.

• Responsible for managing AWS EC2 instances and acted as System Administrator.

• Responsible for leading code reviews and administering a bitbucket and JIRA account.

• Responsible for integrating 2 factor authentications using Twilio Authy to a web application.

• Responsible for integrating and maintaining 2 Mongo databases to feed a data visualization web application.

**UTEP Enterprise Computing (IT)**

*Undergraduate Assistant - Quality Assurance Engineer* **February 2019 – August 2020**

• Responsible for testing custom ASP. Net 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 - Engineering Ambassador* **January 2018 – August 2018**

• Planned and executed successfully, with a budget in mind, 1-week different engineering curriculums for 3rd-11th graders.

• Created and Reviewed the schedule for ExciTES 2018.

• Worked with 13 ExciTES interns, and delegated modules to be exposed to students.

**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.

• JavaFX Application, Price Finder, used MVC model, saves an item’s details and calculates the price change percentage.

**Python 3**

•Wrote a script 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.

•Wrote a script that automates the process of looking up users in a video game leaderboard (Fortnite, PUBG).

•Wrote a script that uses the Open-CV to detect faces and then sort them in folders for each person.

**C**

•Developed a packet sniffer using the pcap library, this had filtering functionalities.

•**Linux shell -** Developed a user shell for a Unix operating system. It mimicked some of the behaviors of the bash shell.

• **Snake -**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.

• **CAHSI** - 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.

**SKILLS**

• Proficient Python3, Java, JavaScript, HTML, CSS, MySQL, C, PHP

• Working knowledge of Angular JS, ASP.NET, Bash, Prolog, Haskell, Selenium.

• Bilingual in Spanish and English (Verbal and Written).

**Leadership and Activities**

• **ACM Vice President 2020-2021**

• Led and prepared virtual workshops for about 20-30 student members.

•Currently assisting the ACM chairs in planning of the Hack915.

• ARL South Hackathon (July 2020) – Capture the Flag Event – Learned about several security issues, and how to fix them.

• HENNAC Hackathon (2019). – Capture the Flag Event – Learned about steganography, encryption, decryption, and data forensics.