

# Miguel A. Avilés Bonilla

(850) 716-3012 | [www.linkedin.com/in/miguel-a-aviles](https://www.linkedin.com/in/miguel-a-aviles) | [miguel4viles@gmail.com](mailto:miguel4viles@gmail.com)

## Education

### The University of Texas at San Antonio

August 2018 - December 2022

*B.S. in Computer Science:*

*Concentration in Software Engineering*

GPA: 3.1

**Relevant Coursework:** Advanced Software Engineering, Application Programming, Analysis of Algorithms, Computer Organization, Computer Architecture, Cryptography, Data Structures, Data Science, Database Systems, Discrete Mathematical Structures, Machine Learning, Mathematical Foundations of Computer Science, Operating Systems, Principles of Cyber Security, Programming Languages, Systems Programming, User Interfaces

## Skills

**Programming Design:** Python, C, Java, HTML, CSS, JavaScript, TypeScript, SQL, PHP, Bash & Shell Programming | **Environment Experience:** Linux, Windows, Vim, Git/Github, AWS, Oracle, Nginx, JSON, React, Node | **Fluent Languages:** English, Spanish

## Projects

### Vinyl eStore

**Description:** Developed a functional eStore prototype that sells vinyls with the expected UI/UX features like product pages, navigation bar, shopping cart, filtered product search **Used:** AWS, Nginx, PHP, MySQL, HTML/CSS, Bootstrap, JavaScript

- Deployed application on an Ubuntu server with 1vCPU and 1 GiB RAM.
- Used MySQL and PhpMyAdmin to manage all of the data on the site including user account information and product information
- Ensured responsive design across all webpages on the site and guaranteed fluid rendering for devices of varying sizes.
- Wrote and placed necessary status/alert messages for an easy navigable user friendly experience
- Implemented the necessary constraints for verifying user input before making actual changes to the database
- Exercised agile development practices

### Portfolio Website

**Description:** Made portfolio website that displays short "about me" bio and information about my projects **Used:** (HTML/CSS/JS)

- Ensured responsive design across all webpages on the site and guaranteed fluid rendering on devices of varying sizes.

### Device Database & API

**Description:** Built a website/REST API that allowed the user to interact with a MySQL database full of devices and add, remove, retrieve, update device record entries from it. **Used:** AWS, PHP, Nginx, MySQL, JSON, JavaScript, HTML, Bootstrap

- Deployed application on an Ubuntu server with 1vCPU and 1 GiB RAM.
- Used MySQL and PhpMyAdmin to manage all of the data on the site (5 Million device records)
- Made modifications to database schema, making use of relational database practices, speeding up query time by roughly 80%
- User can call seven different API endpoints (Add, Delete, Update, Search, List, ViewDevice/File), tested HTTP calls using cURL
- Regularly monitored the cloud infrastructure, including backups, patches, and scaling

## Work Experience

### Complete Chess - San Antonio, TX

*Assistant Chess Coach* (August 2018 - December 2018)

Part time (5-10 hours/week)

- Coached and trained elementary and middle school chess players through after school programs
- Taught new lessons every week and adjusted for each student's skill level

### Gloria's Latin Cuisine - San Antonio, TX

*Server, Roller & Host* (August 2022 - December 2022)

Part time (30 hours/week)

- Learned the inner-workings of a fast paced restaurant environment and excelled in customer service
- Showed versatility by occupying three different positions during my short time of employment

## References

The private information of references is provided upon request.