

Miguel A. Avilés Bonilla

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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 Architecture, Cryptography, Data Structures, Data Science, Database Systems, Discrete Math Structures, Machine Learning, Math Foundations of Computer Science, Operating Systems, Principles of Cyber Security, Systems Programming, User Interfaces

Skills

Programming Languages: Python, C, Java, HTML, CSS, JavaScript, TypeScript, SQL, PHP, Bash & Shell Programming,

Technologies: Linux, Vim, Git/Github, AWS, Nginx, JSON, React, pandas **Fluent Languages:** English, Spanish

Projects

Vinyl eStore | s0undspace.com

- Used AWS, Nginx, PHP, MySQL, to develop an eStore prototype that sells vinyls
- Deployed application on an Ubuntu server with 1vCPU and 1 GiB RAM.
- Built all of the UI/UX features like product pages, navigation bar, shopping cart using HTML, CSS, Bootstrap and JavaScript.
- 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 | miguelaviles.me

- Fully developed portfolio website that displays short "about me" bio and information about my projects using HTML/CSS/JS
- Ensured responsive design across all webpages on the site and guaranteed fluid rendering on devices of varying sizes.

Device Database & API

- Used AWS, PHP, Nginx, MySQL, JSON, HTML to build 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.
- 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%
- Site had its own SSL certificate for HTTPS
- 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

Complete Chess - San Antonio, TX

Assistant Chess Coach (August 2018 - December 2018)

- 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
- Prepared students for tournaments and being comfortable in competitive scenarios

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
- Excelled in customer service and ensured optimal guest experience by seating guests, taking orders, serving dishes, removing dinnerware promptly and ultimately always putting the customer first
- Knowledgeably recommended menu items based on personal customer needs and preferences
- Showed versatility by occupying three different positions during my short time of employment