

Brian Mendoza

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EDUCATION

University of Houston

Bachelor of Science in Computer Science

Houston, TX

January 2017 - December 2019

- Cum Laude & Dean's List
- Minor in Mathematics

PROJECTS

Library Management System – Full Stack Development

Web library system that includes features such as reservations, check-outs, check-ins, late fees, etc

- Designed database schema utilizing best practices, implemented with MySQL, and deployed to AWS RDS
- Developed back-end using python by leveraging the Django web framework
- Designed an easy to use front-end using HTML and CSS (Bootstrap)
- Configured AWS S3 buckets to serve media and assets such as book covers

CalmCrate Dog Anxiety Soother – Minimum Viable Product

Detects when an anxious dog is barking and plays curated music playlists

- Collaborated with a team to construct product using an Arduino microcontroller connected through Serial to a Raspberry Pi, as well as a microphone and speaker
- Designed and implemented an algorithm using Python that detects barks by loudness, streams a specific playlist served by S3 buckets, and modifies playlist if barking continues

Twitter Notification Bot

Python script that sends user a text message when user specified twitter users tweet a specific string of words

- Leverages the Tweepy stream listener API to trigger an action when desired tweets occur in real time
- Utilizes built in SMTP library and mobile carrier SMS gateway domains to send a text message

SKILLS

Languages: Python, C++, C, Java, SQL, HTML, CSS

Technologies: Django, AWS S3 & RDS, Git, SVN, Heroku, R Studio, Selenium

Tools: Visual Studio, Eclipse, MySQL Workbench, Wireshark, Arduino, Cisco IOS

Certifications: Cisco Certified Network Associate (CCNA)

EXPERIENCE

Administrative Assistant

TStar Drilling & Sawing Inc

Houston, TX

February 2019 – Present

- Recovered tens of thousands of dollars in old unpaid invoices from clients by working together with a mechanic's lien lawyer
- Sourced replacement parts as needed to make sure machinery was well maintained and promptly repaired, while cutting the previous year's costs by 25%
- Dramatically reduced time spent billing, making payments, tracking expenses, and preparing tax reports by successfully petitioning for, and completely migrating all records to QuickBooks Online.