

# Miguel Zepeda

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## EDUCATION

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### George Mason University

*Bachelor of Science in Computer Science; GPA: 3.76/4.00*

Fairfax, VA

*Aug. 2020 – Present*

## PROJECTS

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### PintPicks | C#, Python, XAML, DynamoDB, Git/Github, Jira

- Developed a mobile app with a team that allows users to take a picture of a bar menu and receive an itemized list of beers. Users are able to sort the results and view detailed information about each beer.
- Implemented the .NET MAUI mobile development framework to create a cross-platform mobile application that can be deployed to both Android and iOS devices.
- Employed AWS services, including S3 buckets for image storage and AWS Textract for data extraction from drink menus.
- Designed wireframes and developed 4 interactive front-end screens using C# and XAML alongside an MVVM design pattern to create a user-friendly interface for the mobile application.
- Created a Python script, using the Pandas and Boto3 libraries, to parse and upload 1.6 million beer rating entries from a CSV file into a DynamoDB database.
- Implemented Agile development methodologies and utilized Jira for project management, ensuring efficient collaboration.

### OctoVault | Javascript, Electron, HTML, CSS, Git/Github

- Developed OctoVault, a desktop application using Electron, designed to provide users with a comprehensive UFC fighter database.
- Implemented a user interface that enables users to easily browse and access fighter profiles and event information.
- Designed and employed a PostgreSQL database to efficiently store and manage fighter data.
- Utilized SQL for advanced database querying and management.
- Employed Git for version control, ensuring efficient code management throughout the development.

### PomoNotes | Javascript, HTML, CSS, Git/Github

- Developed PomoNotes Chrome extension using HTML, CSS, and JavaScript, designed as a productivity-focused study tool.
- Enhanced the new tab page with JavaScript, showcasing a randomized Unsplash API background image and inspirational quotes sourced from the Quotable API, creating an inspiring study environment.
- Personalized the extension with a customizable greeting below the time display using JavaScript, enabling users to dynamically edit their name, ensuring a personal touch.
- Utilized JavaScript to streamline study organization, allowing users to create, edit, and delete personalized sticky notes, enhancing note-taking capabilities.
- Implemented a built-in Pomodoro timer using JavaScript, boosting study efficiency and time management.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C, C#, Javascript, SQL (Oracle, PostgreSQL), HTML/CSS, XAML, XML

**Frameworks:** .NET MAUI, Electron, Junit, Bootstrap

**Developer Tools:** Git, Jira, Sourcetree, Apache Tomcat

**Libraries:** Pandas, Boto3

**Databases:** Oracle, PostgreSQL

## RELEVANT COURSEWORK

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- Data Structures (CS 310)
- Analysis of Algorithms (CS 483)
- Software Engineering (CS 321)
- Database Concepts (CS 450)
- Software Testing and Maintenance (SWE 437)
- Computer Systems and Programming (CS 367)