JORGE WEISS

SOFTWARE ENGINEER

Jorge.A.Weiss@gmail.com | JorgeWeiss.com | 512-573-4717 | /jorgeweiss1 | /JAWeiss89

SUMMARY:

I'm a full stack Software Engineer with a focus in back-end development and data structures. I develop software that provides technical solutions to real-world problems. Whether it's developing my own real-time messaging app with live language translations or collaborating with other engineers to create an extra resource for students new to remote learning, my work reflects my belief that software can be a powerful tool for social good.

SKILLS:

Back-End Frameworks: Flask (Python), Express(JavaScript/NodeJS)
Database Management: PostgreSQL(RDBMS), SQL-Alchemy(ORM), JavaScript library *db* (low-level connection)
Front-End: HTML5/CSS3/ES6+, Bootstrap, jQuery, AJAX, Axios
Testing Frameworks: Jasmine (for client-side JavaScript), Jest (for server-side JavaScript), and unittest (for server-side Python)
Other: OOP, test-driven development, responsive design, RESTful API development, Git/GitHub
Non-technical: Bilingual in native-level English and native-level Spanish.

PROJECTS:

NE-XO
GitHub Repository | Deployed Application
A real-time messaging app with live language translations built using the Flask framework. Socket-IO and Google's Cloud Translation API work together to provide a seamless multilingual messaging platform for speakers of different languages. The application connects to a relational database using an ORM to retrieve older messages while using Socket-IO to render any new messages to all connected users. Users are authenticated using the algorithm Bcrypt to hash sensitive user data. Responsive design gives users the flexibility of using ne-xo on mobile or desktop devices.

ChimieAPI
GitHub Repository | Deployed Application
An API containing resources on all 118 chemical elements. Different API endpoints can provide a resource for just one element, a group of elements or all elements. The API is built using Flask for all endpoints and responds to requests with JSON. The API uses PostgreSQL and SQLAlchemy to interact and store data. Can be used to create interactive applications for science classrooms.

Lunatutor
GitHub Repository | Deployed Application
Formed and led a team of five software engineers to participate in NASA's 2020 Space Apps Challenge where we created a web app in under 48 hours to help students new to remote learning. The application is built using the Flask framework and uses SQLAlchemy to connect to a PostgreSQL database. The front-end is built using Bootstrap to streamline the responsiveness and styling of the application while axios was used for AJAX functionality. Used Heroku to deploy our application and to host our database.

EDUCATION:

Springboard – Software Engineering Track — *Apr 2020 – Present*
The University of Texas at Austin – B.A. in Biology — *May 2011 – Dec 2015*

EXPERIENCE:

Springboard – Software Engineering Fellow — May 2020 – Present

- Developed full-stack web applications including a multi-lingual messaging app to help bridge communication between speakers of different languages.
- Assembled and led a student team improving performance on algorithm challenges
- Refactored web apps to be object-oriented making them easier to manage and maintain
- Mastered skills in databases, data structures and algorithms.

United Airlines – Language Qualified Flight Attendant — Feb 2016 – Sep 2020

- Nominated for the United 100 Award in Q3 of 2018 by my crewmembers for exceptional teamwork
- Translated important information from the flight deck for Hispanic passengers on international flights
- Responsible for the safety and security of passengers while delivering exceptional customer service