

# MELISSA GIL VILLELA | SOFTWARE ENGINEER | AUSTIN, TEXAS

[melissagv.com](http://melissagv.com) | (520) 612-8721 | [melissagilv@gmail.com](mailto:melissagilv@gmail.com) | [linkedin.com/in/melissa-gv](https://linkedin.com/in/melissa-gv) | [github.com/melissa-gv](https://github.com/melissa-gv)

## TECHNICAL SKILLS

JavaScript, TypeScript, HTML5, CSS3, React, Next.js, Node.js, Express.js, MySQL, PostgreSQL, MongoDB, REST Architecture, MVC, Jest, Bootstrap, Figma, Firebase Authentication, Google Analytics, Nginx, AWS

## EXPERIENCE

**Rate the Review ([playratethereview.com](http://playratethereview.com) / Personal project on [Github](https://github.com)) | Software Engineer** 2023

- Leveraged Yelp's Fusion API and web-scraping libraries to emulate a browser and asynchronously extract the restaurant and review data by using DOM methods and Javascript promises to improve load times
- Demonstrated expertise in React's component-based architecture and unidirectional data flow, as well as proficiency in Figma, Bootstrap and CSS media queries to design an attractive and responsive UI for optimal viewing across various devices, including mobile
- Engaged players by implementing game timers and location personalization using async functions and Yelp API

**Melissa's Portfolio ([melissagv.com](http://melissagv.com) / Portfolio website on [Github](https://github.com)) | Software Engineer** 2023

- Architected server-side HTML pre-rendering with client leaf components for speed while allowing interactivity
- Integrated Google Analytics to track website traffic and user behavior to aid in continuous improvement

**AMAZAM (Personal project on [Github](https://github.com)) | Software Engineer** 2022

- Designed a multi-layered UI to dynamically render product reviews to which customers can contribute new reviews and upload photos via Cloudinary, an external cloud media service provider
- Developed interactive modal forms using React controlled components to provide real-time input validation
- Implemented dark/light mode using CSS media queries and variables to adapt to system theme preferences
- Optimized site performance and data throughput by implementing database indexing, establishing database pool connections, refactoring PostgreSQL queries, and distributing web traffic via an Nginx load-balancer
- Stress tested API with k6.io (local) and Loader.io (deployed) to identify and address bottlenecks in database and server response times; results showed error-free 2.2k requests per second

**Old School (Personal project on [Github](https://github.com)) | Software Engineer** 2022

- Created accessible navbar with search functionality, adequate color contrasts, large text, semantically-correct HTML, and a 'Skip to Content' feature; resulted in improved usability for screen-reader users
- Implemented user authentication using Firebase and MongoDB; resulted in a seamless and secure user experience with persistent data
- Utilized React Router to create a single-page application with dynamic client-side routing, reducing HTTP requests and page reloads to improve site performance and user flow

**Charles Schwab | Technology Audit Manager | Austin, TX** 2019 – 2022

- Delivered audits that improved application, database, and server security through enforcement of Identity and Access Management, NIST SP-800, and OWASP principles; resulted in improved cybersecurity maturity ratings
- Spearheaded the 'Gold Standard' initiative to improve audit deliverable quality, drive consistency, decrease review/re-work efforts; conducted multiple-phase training sessions to reinforce material

**EY | Senior Consultant | Dallas, TX** 2015 – 2019

- Automated audit testing by developing PowerShell scripts and used regex for data manipulation
- Instrumental in client's transition from waterfall to agile project management by coaching and managing issue tracking on Jira; developed Confluence page for information sharing and real-time status updates

## EDUCATION

**Hack Reactor**, Advanced Software Engineering Certificate 2022

**University of Arizona**, B.S. Management Information Systems | GPA: 3.6 2011 – 2015

- Relevant Coursework: DBMS, Data Structures and Algorithms, Information Systems Analysis and Design