

Mirasol Davila

TECHNICAL SKILLS

- Programming Languages: Java, JavaScript, TypeScript, Python, C#, HTML5, CSS, SQL, Haskell
- Databases: SQL, PostgreSQL, MongoDB, MySQL
- Server-Side Development: MERN Stack(MongoDB, Express.js, React, Node.js), Template Engines
- Web Technologies: JavaScript, HTML5, Tailwind CSS, CSS, REST APIS, JSON, Vue.js
- Frameworks & Tools:
 - Front-End: React, Vue.js, Tailwind CSS, CSS
 - Back-End: Spring Boot, Hibernate, Express.js
 - Testing: JUnit, Selenium, Mocha
 - Build Tools: Maven
 - Version Control: Git, GitHub
 - Testing Practices: TDD (Test-Driven Development), BDD (Behavior-Driven Development)
 - Integrated Development Environments (IDEs): Visual Studio Code, IntelliJ, Eclipse, Atom
 - Development Practices: Agile, Kanban, Scrum, Daily Scrum Stand-Ups, Github User Issues, Software Development Lifecycle (SDLC) Methodologies: Waterfall, Agile, Scrum, Kanban
 - Deployment & Delivery: CI/CD Pipelines, Render, Github Pages, Unit/Component/Integration Testing
 - Software & Tools: Trello, Slack, Zoom, Postman API, Wireshark, VirtualBox, Jira, Confluence
 - Operating System: Linux, Windows
 - Design & Prototyping: Figma
- AI-powered Technologies: OpenAI, LangChain

PROJECTS

Neighborhood Aid

September 26, 2024 - October 17, 2024

RESTful API & React-Based Community Engagement Platform | [Github](#) | [Live Demo](#)

Tech Stack: React, TypeScript, Node.js, Express.js, Vite, Tailwind CSS, Leaflet.js, Sequelize (ORM), RESTful Web Services, MVC architecture, Axios, JWT, Bcrypt, Version Control (Git/GitHub), CORS, PostgreSQL, OpenWeather API, OpenWeather Geolocation API, OpenStreetMap API, Nominatim API, Browser Geolocation Api, Postman

- **Architected and led the development** of a scalable, full-stack platform using **React, TypeScript, Node.js, Express**, and **PostgreSQL** to empower civic engagement, enabling citizens to report, track, and manage local issues through interactive mapping (**Leaflet.js**) and real-time data integrations (**OpenWeather API**).
- **Engineered robust backend services** with a structured **MVC architecture** and **Sequelize ORM**, implementing secure **JWT-based authentication** and **bcrypt** for password hashing to ensure data integrity and secure access control.
- **Optimized frontend performance** and ensured cross-device accessibility with **Tailwind CSS** and **Vite**, utilizing **Git/GitHub** for collaborative version control, **Postman** for rigorous API testing, and deploying a production-ready environment on **Render**

Student Management System | Github

July 16, 2024 - July 29, 2024

Tech Stack: JavaScript, HTML5, Tailwind CSS, Local Database, Git, GitHub Pages, Kanban, GitHub User Issues, Figma

- Developed a comprehensive student management system enabling teachers to view and manage their courses and students, with key functionalities for adding, updating, deleting, and searching, essential for effective classroom management.
- Utilized JavaScript for dynamic interactions, HTML5 and Tailwind CSS for responsive design, and integrated a local database.

[AT&T - Open-Source Real-Time Video Player](#)

September 2020 - May 2021

Role: Customer Liaison and Quality Assurance

Tech Stack: JavaScript, Hls.js, Node.js, Chart.js, Selenium, MyExcel

- Successfully communicated customer needs and expectations to front-end and back-end teams to ensure quality product delivery.
- Successfully built a Network Throttling Emulation tool for Testing and KPI Record keeping, using Selenium Automation Framework
- Created selenium scripts to collect data for the project and interact with browser development tools, including network simulation capabilities.

- Ensured that the final product observed the company's quality standards.

EDUCATION

Bachelor of Science, Computer Science

California State University, Los Angeles | Los Angeles, California