William Mason

San Diego, CA | (619)-665-6205 | williamcmason1997@gmail.com
https://www.linkedin.com/in/willmason97/ | https://github.com/wmason1997 | Schedule a call!

TECHNICAL SKILLS

Languages: Python, SQL, R, HTML/CSS, JavaScript, CSS, CSS3, HTML5, JSON, MERN
Data Manipulation & Visualization: dplyr, ggplot, Google Looker, Computational Statistics, SQL
Other: Heroku, Git, Bash, Microsoft Office Suite, Render, Atlassian Suite (Jira, Confluence, etc.)

SOFTWARE ENGINEER

Dedicated Full Stack Web Developer with a robust foundation in autonomous vehicles software, applied mathematics, and statistics. A graduate of the University of California San Diego Coding Bootcamp, actively pursuing and soon-to-be armed with a Certificate in Full Stack Web Development and extensive proficiency in R, Python, and various technologies. Known for adeptly compartmentalizing and solving complex problems throughout project development and testing. Demonstrated ability to visualize and analyze data, contributing to enhanced test case coverage and critical decision-making. Proven track record in Quality Assurance and hands-on experience in modifying HTML/CSS for improved frontend functionality. An effective collaborator adept at interfacing with cross-functional teams and ensuring timely project completion.

RELATED EXPERIENCE

- Password Generator: https://wmason1997.github.io/WM-Password-Generator/
- Work Day Scheduler: https://wmason1997.github.io/WM-Calendar-Application/
- Weather Dashboard: https://wmason1997.github.io/WM-Calendar-Application/

Technologies: Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), JavaScript, jQuery, Git, Bootstrap, server-side application programming interfaces (APIs), Asynchronous JavaScript and XML (AJAX), and JavaScript Object Notation (JSON), Node.js, Object-Oriented Programming (OOP), Express.js, MySQL, ORM (Sequelize), Model-view-controller (MVC) framework (Handlebars.js), unit testing, Agile, Heroku, MongoDB, NoSQL, Progressive Web Applications (PWAs), React, Mern

WORK EXPERIENCE

Roya.com   **San Diego, CA**
Quality Assurance Client Support I   October 2023 - March 2024
- Performed QA on clients' websites before site deployment and implemented fixes for bugs or requested updates
- Modified existing HTML and CSS to edit client websites' frontend appearance/functionality

Meta (contracted by Moravia IT)   **Remote**
General AI Data Annotator   July 2023 - October 2023
- Graded and improved prompt responses from the client's Large Language Model (LLM)
- Cleaned and extracted claims in the training data to enable improved responses from web-based corpus

TuSimple   **San Diego, CA**
Software Quality Assurance Test Engineer II   February 2022 - July 2023
Software Quality Assurance Test Engineer I   September 2020 - February 2022
- Utilized R to visualize data in the form of heatmaps via ggplot and dplyr that drove test case coverage improvement across different condition combinations (time of day, vehicle type and trajectory, road architecture, etc.)
- Verified supervised Machine Learning metrics by comparison via Google Lookers to scale possible testing volume These included accuracy, precision, recall, MSE, and RMSE trajectory. Fine-tuned flagging thresholds to minimize type 2 errors

- Generated 100+ map reports to verify improvements to existing and emerging routes. Performed root cause analysis on issues relating to speed limit, intersection stop/go intention, and trajectory oscillation
- Interfaced with my own team (Regen Verification) as well as others to ensure timely completion of various projects across the Atlassian suite (Jira, Confluence, etc.)
- Contributed to the first successful driver-out ride (Ghost Rider) in December 2021 via simulation testing

EDUCATION

University of California, San Diego   **San Diego, CA**
Fullstack Coding Bootcamp Certificate   Expected, March 2024
- **Relevant Tools and Frameworks:** Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), JavaScript, jQuery, Git, Bootstrap, server-side application programming interfaces (APIs), Asynchronous JavaScript and XML (AJAX), and JavaScript Object Notation (JSON), Node.js, Object-Oriented Programming (OOP), Express.js, MySQL, ORM (Sequelize), Model-view-controller (MVC) framework (Handlebars.js), unit testing, Agile, Heroku, MongoDB, NoSQL, Progressive Web Applications (PWAs), React, Mern

Udemy   **Remote**
Complete Python Bootcamp (Zero to Hero) Certificate   Completed, July 2023
- **Relevant Topics:** data structures, kwargs, OOP, errors/exceptions handling, decorators and generators, web scraping

University of California, Los Angeles   **Los Angeles, CA**
Bachelor of Science in Applied Mathematics (Statistics minor)   Graduated
- **Relevant Coursework:** Linear Algebra, Mathematical Modeling, Probability Theory, Computational Statistics with R, Data Analysis and Regression, Algorithms, Graph Theory, Game Theory, Physics, Kinematics, and Experimental Design