

# MICHAEL BERRY

San Diego, CA

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Portfolio: <https://mgberrysd.github.io/svelte-portfolio>

## SUMMARY

Full Stack Web Developer with a background in Mechanical Engineering and a continued desire to learn and improve. A strong analytical problem solver capable of engineering novel solutions to complex problems. Always strives to maintain positive relationships with peers through learning and teaching.

## TECHNICAL SKILLS

**Front End:** HTML5, CSS3, JavaScript, TypeScript, jQuery, ReactJS, Bootstrap, Tailwind, Svelte

**Back End:** Node.js, Express.js, MySQL, MongoDB, Apollo/graphQL, AWS S3, AWS EC2  
**Scripting:** MATLAB, Python

## PROJECTS

**SLO Stone Properties** | <https://github.com/RCLobster/slo-stone-properties> | <https://www.slostoneproperties.com/>

- A property management portal and renter application site for a small real estate management company
- Responsible for database setup and management, form integration, and administrator portal design and tools
- Developed with ReactJS, MongoDB/Mongoose, Express.js, Node.js, Bootstrap
- Worked with project stakeholders to develop a site with real use applications and adjust features based on feedback

**Mad Libs Generator** | <https://github.com/RCLobster/team-M-s-project-3> | <https://team-m-s-project-3.onrender.com/>

- A full stack application where users can fill out Mad Libs and have them read back
- Responsible for server and routes setup, database setup and management, database queries/resolvers for front/back end, Web Speech API implementation
- Developed with MongoDB/Mongoose, Express.js, Node.js, ReactJS, Apollo/graphQL, Web Speech API

## EXPERIENCE

**Contract Full Stack Web Developer**  
**3Plus Management**

May - Dec 2024  
Los Angeles, CA

Contract position as part of a rebuild for 3PM from template site to full stack application. Involved in all aspects of development from the React + TypeScript and Tailwind front end design, CMS tools, MySQL database management, and AWS cloud hosting.

Key Accomplishments:

- Developed CMS tools for managing site content including uploading videos and photos to an AWS S3 server

- *Devised server, database, and API structure to facilitate smooth front end development*
- *Created SQL queries for interacting with complex Many-to-Many relationships and nested JSON objects*
- *Communicated with product owners on a regular basis for feedback on features and look of the site*

**Graduate Student Research Assistant**

2019 – 2022

**San Diego State University Research Foundation**

San Diego, CA

*Grant funded research position as part of NASA's SoFIE spacecraft fire safety research project. Conceptualized and conducted self-directed novel tests with advanced equipment and techniques to aid ongoing flight experiments. Coded extensively in MATLAB for data analysis and interfacing with test equipment.*

**Key Accomplishments:**

- *Presented research at Western States Section of the Combustion Institute (Fall 2019, Spring 2020), American Society for Gravitational and Space Research (2019, 2023), and SDSU Student Research Symposium (2019, 2020)*
- *Communicated with NASA GRC engineers on weekly/monthly calls to update status of research*
- *Research led to publication of thesis and award of Master's degree*

**Lecturer ME 31**

Spring 2019

**San Diego State University**

San Diego, CA

*Lecturer for ME 351 Engineering Thermodynamics. Volunteered for the position after the previous instructor was on emergency medical leave. Gave lectures 3 times per week on the subjects of basic energy cycles, entropy, and exergy analysis.*

**Key Accomplishments:**

- *Successfully lead a class of approximately 20 students giving lectures, assigning homework, and creating quizzes/tests*
- *Recognized by department chair for the continuance of class and positive student feedback*

**Graduate Teaching Assistant**

2017 – 2019

**San Diego State University**

San Diego, CA

*TA for ME 490A Senior Design and ME 556 Solar Engineering. Graded homework/quizzes, held office hours for student questions, lectured classes when necessary.*

**Key Accomplishments:**

- *Successful assistance with large classes (50 -100 students) allowed for professors to focus on teaching*
- *Positive relationships with professors allowed for research opportunities when pursuing Master's degree*

**EDUCATION**

**Full Stack Web Development Boot Camp Certificate:** *University of California San Diego, San Diego, CA*

*A 3 month intensive program focused on gaining technical programming skills in HTML5, CSS3, JavaScript, JQuery, Bootstrap, Node.js, MySQL, MongoDB, Express, Handelbars.js, and ReactJS.*

**Master of Science, Mechanical Engineering:** *San Diego State University, San Diego, CA*

MSME with an emphasis in thermofluids. Degree awarded on publication and successful defense of thesis. Degree program consisted of extensive classes on theory and practical research applications at the Combustion and Solar Energy Laboratory at SDSU.

***Bachelor of Science, Mechanical Engineering:*** *San Diego State University, San Diego, CA*