# Leianne Fajutagana

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LinkedIn: linkedin.com/in/leiannefaj | GitHub: github.com/leifaj | Portfolio: leianne.netlify.app

Flexible engineer with a passion for coding and developing data analysis models, websites,
and apps from the ground up. Empathetic communicator and adept learner.

## SKILLS

JavaScript, Python, HTML/CSS, R, Excel VBA, React.js, Node.js, Express, MongoDB, Git, GitHub

## WORK EXPERIENCE

**CA Department of Water Resources**                                          **Jan. 2021 – July 2022**
Water Resources Engineer *(Hydropower)*                                        Sacramento, CA
- Pumped Hydro Storage Python Model
  - Improved Python code to optimize pumping plant operations under multiple constraints.
  - Reviewed monitoring data, prepared data inputs, and created graphs of model results.
  - Documented changes in software for ongoing development & team collaboration.
  - Clearly presented code modifications and model results to an audience of ~30 key stakeholders.
- R Volatility Code Maintenance
  - Maintained R code (that calculates price volatility) to improve functionality and user experience.
  - Wrote a user guide for non-programming colleagues that included instructions and troubleshooting.
  - Conducted a training session over Microsoft Teams to instruct coworkers on how to run the code.
- Excel VBA Scripting
  - Wrote Excel VBA scripts to automate running Excel models that manipulate sophisticated data.
  - Created various scripts to meet coworkers' needs: data cleaning, formatting, and calculations.

## PROJECTS

**BTS Memes API**
Website: bts-memes-api.herokuapp.com | Tools: HTML, CSS, JavaScript, Node.js, Express, MongoDB
- Built a REST API that uses HTTP requests to create, delete, and read images from a MongoDB database.
- Created a public site with documentation, a search tool to filter images by category, and detail toggling.
- Created a private tool to delete images, or upload a new image and store the URL and information in a database.

**AI Response Generator**
Website: ai-response-generator.herokuapp.com | Tools: HTML, CSS, JavaScript, React.js
- Created an app that sends text prompts to an AI and displays its response in a list.
- Stored the responses in client-side storage so that the information is retained upon page reload.

**Portfolio Site**
Website: leianne.netlify.app | Tools: HTML, CSS, JavaScript
- Designed a portfolio website to display skills and projects.
- Implemented responsive design to make the site render well on a variety of screen sizes (desktop, mobile, etc.)

**Who's That Pokémon? Guessing Game**
Website: leifaj.github.io/whos-that-pokemon | Tools: HTML, CSS, JavaScript
- Built a game where the user must guess the name from a randomly generated Pokémon silhouette.
- Validated incorrect/correct user guesses and updated the styles of the page accordingly.

## EDUCATION

**University of California, Davis**                                          **June 2020**
Bachelor of Science, Civil Engineering                                        Davis, CA