

Vernon Louie

[Portfolio](#)
[LinkedIn Page](#)
github.com/vernonlouie

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Technical Skills

Strong: JavaScript, jQuery, CSS, HTML.

Experienced: GitHub, OOP, Bootstrap, Angular JS, LAMP (Linux, Apache, mySQL, PHP) stack, Firebase.

Projects

[MacDIYver github](#) - users type in what tools and materials they have and MacDIYver (pronounced like "MacGyver") finds best-match art/home projects with instructions.

- Created mySQL database tables and devised select, insert & update queries using PHP.
- Helped build View Project page using Angular, javascript and HTML.
- Designed neighborhood tool share using database and Google Maps API.
- Implemented Google Analytics, WordPress and social media sharing into app.

[VenueFind github](#) - finds and displays music venues in area and gathers photos, tweets and videos about a user-selected venue so users can find a great night on the town! Team of 4.

- Utilized YouTube and Twitter APIs via AJAX calls using jQuery.
- Generated scrollable table to display up to 15 tweets using JavaScript.
- Devised carousel for a "clean" look to hold 10 YouTube videos using Bootstrap.

[Calculator github](#) - calculates like the real thing! created from scratch. Solo project.

- Wrote logic to execute basic and advanced operations and handle incorrect user inputs.
- Breathed life (functionality) into calculator using JavaScript and jQuery.

[Memory Match github](#) - aka Concentration. Flip cards over to see if they match! Solo project.

- Composed code (Javascript, jQuery) to reveal card fronts only when correct to do so.
- Implemented CSS and HTML to render My Little Pony theme.

Professional Experience

(2003-2011) Aerospace Engineer @ Boeing, Southern California.

X-37B, (2005-2011) robotic small school bus sized-space shuttle that flies and lands itself

- Generated 60-70 flow charts for code implementation and communicated with coders to generate onboard flight software commands to operate the spacecraft.
- Wrote and rehearsed/tested procedures ~20 times in simulated operations environment with live personnel to recover X-37B from life-threatening solar array problems.

(1994-2003) Aerospace Engineer @ Lockheed Martin, Sunnyvale. Various programs.

(1994) Student @ San Jose State University. Wrote FORTRAN program, OrbitPlot, to calculate and display spacecraft orbits about sun or planets, including course changes due to propulsive maneuvers and gravitational flybys. For classroom instruction.

Education

LearningFuze - (Irvine, CA). An Accelerated Web Development School. Completed: 2017.

San Jose State University - (San Jose, CA). BS, Aerospace Engineering. Graduated: 1994.

Personal

I enjoy the unique geology and history of our national parks. I follow San Francisco pro sports teams, good or bad. Also enjoy golf, basketball, travel and personal finances.