Aaron Kaloti

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EDUCATION:

Bachelor of Science, **Computer Science and Engineering** Graduation: **December 2018**
GPA: **3.909** / 4.000 University of California, Davis

SKILLS:

Much Experience: C++, JavaScript, jQuery, Java, C, Python, HTML, Git, OOP, Unit/Functional Testing
Some Experience: AngularJS, Django, CSS, SQL, PHP, Android , Linux (scripting), LaTeX, Node.js

SOLO PROJECTS (Open-Source):

2D Square Cannonade Desktop Game, September 2016 – Current

- Using C++ (some C++11 features) and SFML library
- Implemented AI with A* pathfinding algorithm to have enemies navigate around walls
- Unit and integration test-driven development with Catch framework

Simplified Economic Model, June 2016 – September 2016

- User gives inputs (e.g. excise tax, tariff) and is shown effects on supply and demand graphs
- JavaScript Model-View-Controller pattern to handle various settings
- Unit and integration test-driven development with QUnit (182 assertions)
- Uses Riemann sums to calculate graph-dependent values (e.g. consumer surplus)

2D Spacecraft Android Game, December 2015 – April 2016

- Used Java and Android Studio
- Learned to handle both game thread and multi-touch input thread

EXPERIENCE:

IT Assistant, ASUCD Unitrans, 10 hours/week, June – September 2016

- Did full-stack web development with Python, Django, and JavaScript
- Wrote four sets of unit tests, fixed three minor bugs, and added four minor improvements to website

OTHER:

Review Session Host/Co-Host, October 2016 – Present

- So far, have hosted six review sessions and co-hosted two, including two for an upper-division algorithms course (for audience of about 20 people) and two for a lower-division data structures course
- Average session length: about 1 hour, 40 minutes

Computer Science Tutor, 2-3 hours/week, April – May, October 2016 – November 2016

- Available to help consider approaches to problems, help debug, and explain concepts

Undergraduate Research Assistant, Mathematics Department, 8-12 hours/week, July – September 2016