Aaron Kaloti

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EDUCATION:

Bachelor of Science, **Computer Science**   Graduation: **June or December 2018**

GPA: **3.820** / 4.000   University of California, Davis

SKILLS:

Much Experience: C++, JavaScript (jQuery), Java, Python, HTML, Git, OOP, Unit/Functional Testing
Some Experience: MEAN (esp. AngularJS), Django, PHP, Bootstrap, CSS, C, R, Android, Linux

SOLO PROJECTS (Open-Source):

2D Square Cannonade Desktop Game (Unfinished), September 2016 – December 2016

- Using C++ (some C++11 features) and SFML library
- Implemented (unacceptably slow) AI with A* pathfinding algorithm to have enemies avoid 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 (e.g. tax) given by the user
- Unit and integration test-driven development with QUnit (182 assertions over 34 files of test code)
- 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

LEADERSHIP:

Review Session Host, October 2016 – Present

- So far, hosted **13** review sessions (three as co-host), with average length 2 hours
- Approximate audience sizes range from 15 to 90 people, with average of 45

President, Robot Programming Committee, Vanden High School, June 2014-June 2015

GROUP PROJECTS:

Warcraft Website (Class Project), January – March 2017

- In team of eight, created full-stack website with Python, Django, and JavaScript

Hackathon (HackDavis) Project, January 2017

EXPERIENCE:

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

- Did full-stack web development with Python, Django, and JavaScript

OTHER:

Computer Science Tutor, 2-3 hours/week, April – May, October 2016 – November 2016
Undergraduate Research Assistant, Mathematics Department, 8-12 hours/week, July – September 2016