

Ashley Dattalo

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Education

California Polytechnic State University
(San Luis Obispo)
BS Computer Science 2018

Github: ashleydattalo

LinkedIn: Ashley Dattalo

Languages: C, Java, Javascript, HTML, CSS, C++, OpenGL

Hobbies: Running, Reading, Magic Card Tricks, Soccer

Work Experience

Microsoft | Software Engineering Intern

June 2017 – September 2017

- Worked on the SCCM team

Godaddy | Software Engineering Intern

June 2016 – September 2016

- Worked on the Internal Tools team
- Used Javascript and HTML

MarkLogic Corporation | Software Engineering Intern

June 2015 – September 2015

- Created website to visualize graphical data
- Wrote AJAX calls, server-side Javascript extensions, and NoSQL queries
- Used HTML, CSS, d3, Javascript, and jQuery

Digital Democracy | Software Tester

March 2015 – June 2015

- Worked on a team of 25 students and professors to create a website that features a searchable database of California state legislative committee hearings

Projects

Galaxy Collision in Virtual Reality

- Built a simulation of two galaxies colliding
- Enabled user to add stars into the simulation
- Used Unity

2D Fluid Solver Simulation

- Created a renderer for Jos Stam's fluid solver algorithm
- Built using OpenGL and C++

Solar System Simulation

- Shows the Earth, Jupiter, Mars, space stations, and meteors orbiting the sun
- Built using OpenGL and C++

2048

- Built my own version of the game 2048 (in Java)
- Created a colorful UI to play the game

Particle System Simulation

- Rendered 1,000,000 particles to screen per frame
- Used Transform Feedback to allow particle data to stay on the GPU increasing performance

Motion Sensor Light Bulb Project

- Used a Raspberry Pi, motion sensors, and a smart light bulb
- Built a website to control the state of the light

L-Tree Generation Game

- Created a world with multiple mathematically generated L System Trees
- Implemented using OpenGL and C++

Chess

- Built a Java UI to play the game

Android App Development

- Built a motivation workout app

Service

Women Involved in Software and Hardware

President

(June 2017 - Present)

- Managed a team of 25 officers to ensure the club runs smoothly

Community Outreach Director

(September 2014 – June 2017)

- Responsible for organizing:

- ❖ **Pacheco Code Club:** 6 week program to teach 2nd graders how to code
- ❖ **Expanding Engineering 2017:** Day-long event to teach 150 high students about computer science
- ❖ **High School Visits:** Promoted CS at local schools

- ❖ **Creston Elementary Engineering Night:** Taught elementary students how to program using Scratch
- ❖ **CPE Open House Club Showcase Booth:** Taught visitors how to make Drawable circuits