Zach Daniel

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Education

Attended Columbia College, Chicago, IL 2013 - 2018
Interactive Arts & Media Stream
Major Courses GPA: 3.45

Work Experience

Contract Programmer, Digital Signage Solution, June 2018 to September 2018
Eastside Preparatory School, Kirkland, WA
- Reduced first-time setup for new Pis from a 30-minute task for a skilled worker to an automated process that takes 5-10 minutes.
- Migrated all data storage from .csv and text files to a MySQL database.
- Reformatted admin website to better match actual use case.

Contract Website Project, November 2017 to December 2017
Mix Acupuncture, Redmond, WA
- Created a full website from a series of wireframes provided by the client.
- Integrated Google Maps and the vendor's choice of external appointment booking service.
- You can visit the website at http://www.mixacupuncture.com/

Summer Intern, Digital Signage Solution, June 2017 to August 2017
Eastside Preparatory School, Kirkland, WA
- Created a system of networked Raspberry Pis that control campus TVs to show class schedules, videos, or promotional materials. Completely automated what used to be a repetitive, time-consuming task for multiple people.
- http://zachdaniel.com/digital_signage_server.html

Summer Intern, IT / Support, June 2016 to August 2016
Eastside Preparatory School, Kirkland, WA
- Set up computer workstations, imaged laptops to be distributed to incoming students, maintained multimedia centers in classrooms.
- Managed two teams of other interns, providing general direction and keeping them on task
- Supervised the use of a ShopBot 3 CNC router to build computer cases and shop and lab furniture.
- Designed intern ID card templates, signage, website elements, etc. in line with the school's existing branding.

- Documented the process for disassembling and reassembling a 3D printer for cleaning and maintenance.

Contract Programming Project, July 2014 to August 2014
Enso Center, Redmond, WA
- Designed and implemented a tuition calculator tool for the Enso Center website. The calculator saves time on many fronts, from ensuring the complicated discount scheme is applied correctly to encouraging customers to sign up for automatic monthly payment. Automatic payment gives the customer the best deal and saves administrative time processing checks.
- The calculator displays the total monthly rate, total monthly savings and total yearly savings for each family.
- You can try the tuition calculator on this page: http://ensocenter.org/tuition.htm. Browse or search on that page to find the link that says Tuition Calculator.

Projects

- Programmer on major gameplay mechanics. Created 2d and 3d art for the Hub level of "Aiku" http://zachdaniel.com/aiku.html
- "Fossil Exploration" interactive prototype based on user research / testing for the Field Museum of Natural History http://zachdaniel.com/fossil-exploration.html
- Sole programmer on 3rd person platformer game "Fizz" http://zachdaniel.com/fizz.html
- Programming, 2d and 3d art on vertical scroller "HELL IS ASYMMETRY" https://zachdaniel.com/hell_is_asymmetry_webGL/index.html
- Designer and Creator of "Sword Tuning" http://zachdaniel.com/sword_tuning.html
- Music visualization website using WebGL with various queue-able geometric/kaleidoscopic graphics synchronized to music tempo. Seizure warning: http://zachdaniel.com/webgl/visualizer.html
- 3D flocking algorithm with 300 "birds" wandering, flocking, and avoiding large red "predators" http://zachdaniel.com/webgl/flocking.html
- Flashcard study website in JavaScript, lots of animation and moving elements around. http://zachdaniel.com/kanji/flashcards/index.html
- C# application to query a SQL database on City of Chicago employees and store all the data in an Azure DocumentDB.
- C++ running on a Teensy microcontroller; reads encoder and button data and controls Traktor 2 DJ software via MIDI signals.

Skills

- Unity, C#, C++, Javascript, jQuery, Node.js, HTML 5, CSS, WebGL, HLSL, Git

Other Interests

- Anime, Drum & Bass, Card Magic, Martial Arts, Reading

Awards & Achievements
- 2nd Degree Black Belt in Hapkido
- 5 Time Pacific Coast Association Of Magicians Gold Medal Winner – Jr. Close-Up