



WORK EXPERIENCE

HQ Software Consulting - Web Developer and Cybersecurity Analyst	September 2019 - Present
<ul style="list-style-type: none"> Building the RecoverCA.gov website for hosting public disaster recovery information and a mailing list service using Drupal CMS Improving workplace efficiency and data security with Java development and CentOS system administration 	
Bailey Plant Simulation Lab at UC Davis - Research Assistant	March 2018 - July 2019
<ul style="list-style-type: none"> Developing user interface for crop simulation and data projection application <i>Cronus</i> in C++ with Qt Framework Modifying LiDAR point cloud scan data of crop fields into 3D meshes for immersive observation with the HTC Vive Head Mounted Display in Unreal Engine's VR game environment 	
CCIA Crop Inspector	May 2018 – August 2018
<ul style="list-style-type: none"> Sunflower crop inspecting involving record keeping and working with agronomists to prevent weed, pest, and maturity problems 	
UC Davis IET - Student Staff	October 2015 – December 2015
<ul style="list-style-type: none"> Scripted, recorded, and published customer support tutorial videos intended for the UC Davis internet user base 	
Accenture – Contractor	July 2014 – Sept. 2014
<ul style="list-style-type: none"> Worked at a “diamond client” project and successfully completed migration of the project documentation from DocuWiki to a new Mediawiki site. Worked with various teams to consolidate their individual documentation, trained project staff to use the new wiki and performed technical handoff. 	

SKILLS

PROJECT EXPERIENCE

Programming skills	Selective Breeding with Brassica Rapa	Jan. 2018 – Mar. 2018
Python & C#	<ul style="list-style-type: none">A breeding project carried out for increasing leaf trichome number in a population of Brassica RapaSignificant increase of 1.4 standard deviations of the mean reported in the progeny generation	
MATLAB		
HTML & CSS	Foundations of Biosystems Engineering Algal Bioreactor Project	Jan. 2017 – Mar. 2017
PHP		
UNIX command line		
Software Skills:		
Linux Server Admin	<ul style="list-style-type: none">Original design and construction conceived for the purpose of cultivating algae and potentially extracting ethanol-based fuelsProject limitations included carbon footprint, energy efficiency, and portability	
Virtualization		
SolidWorks		
Excel Programming	MATLAB Audio Sampler	Mar. 2016
Wordpress		
BLAST	<ul style="list-style-type: none">Music editing and creation application written in the MATLAB environmentFunctionality included playback, interactive waveform visualization, low-pass filter, analog synthesizers, BPM and tempo adjustment, and audio filters such as vocal removal	
Git		
Blender		
Unity		
Unreal Engine		
ARC GIS		
APSIM		
Biology and chemistry lab procedures		
Bioinformatics and gene database investigation		
Fertigation system design		
Industrial scale vertical hydroponics assembly		
Experimental Design		
Interests:		
General Systems Theory, 3D Animation, VR,		
Game Development, Filmmaking, Painting,		
Independent Music Production, and Flameworking		
EDUCATION		
University of California, Davis		Jun. 2019
Bachelor of Science, Plant Science		
Emphasis: Genetics and Plant Breeding		
Relevant Coursework:		
Single & Multivariable Calculus, Linear Algebra,		
Differential Equations, Plant Biotechnology,		
Circuits, Applied Statistics for Bio Sci		
CERTIFICATION		
Amazon Web Services Cloud Practitioner		Sept. 2019