AmyBea Walder

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EDUCATION

Portland	State University – Portland, OR.	September 2018 – March 2019	
	Post-baccalaureate program for additional coursework in computer so	*	
	Overall GPA: 3.20		
	Related Coursework: Data Management in the Cloud and Cluster Computing, Full Stack Web Development, Cryptography		
Worceste	r Polytechnic Institute (WPI) – Worcester, MA.	August 2014 – May 2018	
	B.S. Computer Science		
	Overall GPA: 3.23		
	Faculty adviser: George Heineman, heineman@cs.wpi.edu (can be co	ontacted for reference)	
	Related Coursework: Software Engineering, Software Security Eng Learning, Database Systems I & II, Human Computer Interaction, Of Assembly Language, System Programming Concepts, Algorithms, For Languages, Linear Algebra, Probability, Statistics I & II, Discrete M.	perating Systems, Machine Organization and nundations of Computer Science, Programming	
EXPERII	ENCE		
Highe	r Education Research Experiences (HERE), Research Participator –	Oak Ridge National Lab May 2019 – July 2019	
	Played a crucial role in design and development of real-time dashboa	rds for data analytics purposes	
		g tools were integral parts of research and pro-	
	gramming to build some software solutions		
	implemented.	and their deployment were further explored and	
Major	Qualifying Project (MQP), Student – WPI	September 2017 – April 2018	
	Equivalent to a senior capstone project		
	Created an Android application, along with an accompanying written project report, that will facilitate the collection of data for the experimental stage of the Music-induced Analgesia Genome Study (IMAGS)		
	Application provides patients who suffer from chronic pain a too		
	tening to a selected song while simultaneously gathering referen	ceable data, which is needed by and accessible	
	to the study researchers Aided by the Spotify Android SDK and Sp	otify API via OkHttn	
	☐ A local copy of data stored on mobile device		
	□ Volley was used to send data through HTT		
	MySQL database on WPI server		
	Project managed on GitHub, following the agile scrum methodology other project management tools such as Trello	for the software development process, aided by	
	Poster presentation to the CS department at WPI included a successful demonstration of the application		
	The project report and poster presentation detailing our application and its development are available upon request		
	Project adviser: Wilson Wong, wwong2@wpi.edu (can be contacted	for reference)	
Intera	ctive Qualifying Project (IQP), Student – Worcester, England	March 2017 – May 2017	
	The IQP is a requirement for all bachelors' degrees and is normally done during a term abroad		
	WPI global project site sponsored by the University of Worcester (UW) working with the Worcester Arts Workshop		

	(WAW)			
	Presented a guideline for improving the Workshop's operations to allow it to improve its sustainability (e.g. switched event and class bookings to an online system, Eventbrite) and accessibility, which involved the community identity and operations of the WAW			
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	week event	, ,		
	Observed, analyzed, and reported employees' time usage to develop recommendations for using time more efficiently and delegating tasks			
	Presented a PowerPoint presentation at UW and the Meliora International Symposium of Student Sustainability Research showing the true importance and potential of the WAW			
	Project adviser: Ruth L. Smith, <u>rsmith@wpi.edu</u> (can be contacted for reference)			
U.S. G	eological Survey (USGS), Computer Scientist Intern – Vancouver, WA.	February 2016 – August 2016		
	Done during leave of absence at WPI			
	Used skills in microcontroller programming to write successful test software fo			
	utilized at many sites on Cascade volcanos (accomplished solutions solved in the Spent time working with large data sets and applied Python programs to translations of the solutions of the solu			
	into compelling and useful form that could be utilized by USGS scientists in the			
	Serviced field instruments that provide data for the USGS at Mount St. Helens	on worn		
	Supervisor: Chris Lockett, <u>clockett@usgs.gov</u> (can be contacted for reference)			
Orego	n Health & Science University (OHSU), Student Researcher – Portland, OR.	June 2013 – August 2013		
	Listened to collected zebra finch audio motifs and sorted them using Sound An	•		
	Presented a poster detailing the results of the research and findings in the annual Howard Hughes Medical Institute Science Without Limits Symposium at Lewis & Clark College			
	Supervisor: Dr. Christopher Olson, colson1@midwestern.edu (can be contacted for reference)			
TECHNI	CAL SKILLS:			
	Programming Languages: Python, Java, SQL, HiveQL, Mango, C, C++, Rack	ket, HTML, CSS, Javascript, JQuery,		
	Bootstrap, Node, Express, Mustache, Socket, MATLAB			
	Operating Systems: Windows, Ubuntu (GNU/Linux)			
	Software: Wireshark, Android Studio, Eclipse, JetBrains PyCharm and WebSt			
	Suite, Google Drive and Analytics, Google Cloud Platform, CouchDB, Adobe Photoshop, Premier Pro CC, and			
	Animate, Maya, Zbrush Lab : Aseptic Technique, Microscopy, Plasmid Purification and Cloning			
	Lab. Ascente Technique, wheroscopy, Flashild Furtheation and Cloning			
ACTIVIT	TIES / COMMUNITY SERVICE:			
Alpha	Gamma Delta Women's Fraternity, Interim Social Internal Chair – WPI	November 2014 – November 2017		
	Held leadership interim position fall 2016			
	Lead weekly planning committee, presented upcoming events to chapter, and organized successful on and off camp events			
Wome	n's Rugby Club Team, Equipment Manager – WPI	September 2015 – December 2016		
	Maintained sporting equipment by bringing it to practice, later storing it, and w	ashing it as needed		

Rose City Rollers Junior Roller Derby Team, Skater and Volunteer – Portland, OR.	October 2012 – April 2014	
□ Volunteered at events working whatever position was needed (ushering, working merchandise, tracking capacity)		
Grant High School Dragon Boat Team, Tiller, Paddler, and Caller – Portland, OR.	January 2012 – June 2014	
□ Placed 1 st in Portland Rose Festival Dragon Boat Race 2012 High School Division		