

SKYLAR SHYU

EDUCATION

Salt Lake City, UT	University of Utah	<i>Aug. 2015 – May 2019</i>
<ul style="list-style-type: none">B.S. in Computer ScienceRelevant coursework: Algorithms; Computer Systems; Database Systems; Engineering Probability & Statistics; Natural Language Processing; Software Practice I & II; Scientific Computing; Web Software Architecture		
St. Louis, MO	Washington University in St. Louis	<i>Aug. 2010 – May 2014</i>
<ul style="list-style-type: none">B.A. in Philosophy with Minor in Writing		

WORK EXPERIENCE

Salt Lake City, UT	University of Utah – IT (UIT)	
Campus Web Hosting Intern		<i>Jan. 2018 – present</i>
<ul style="list-style-type: none">Re-wrote and stress-tested a Python script that SSH'd into Linux webhosts to pull server metrics and website dataLearning how to manage and create Puppet facts and manifests to maintain, implement and standardize webhosts		
Student Lead Intern		<i>May 2017 – Dec. 2017</i>
<ul style="list-style-type: none">Coordinated monthly re-syncs between 15 to 19 student staff and their mentors to set goals and projectsInterviewed and evaluated students to fill open positions within the programStandardized student program processes by creating documentation, reducing miscommunicationWrote code to automate redundant processes and to allow future scalability of the internship program		
Business Intelligence Intern		<i>Mar. 2017 – Jun. 2017</i>
<ul style="list-style-type: none">Gathered performance metrics in ServiceNow and visualized them through dashboards and reportsAutomated the collection of data through Python scripts and MySQL queriesCoordinated groups within Software Platform Services to obtain the necessary metrics		

TECHNICAL EXPERIENCE

Work Project: ServiceNow Visual Task Board Replacement	<i>Sept. 2017 – Dec. 2017</i>
Produced a proof-of-concept replacement for an AGILE board to organize our candidate pool	
<ul style="list-style-type: none">Installed a LAMP stack on an Ubuntu 16.04 box, including an SSL certificate on the serverImplemented LDAP authentication to verify logins and establish different levels of permission in JavaBegan designing the web application using JSP and jQuery UI	
Class Project: U-Hotel Web Database Application	<i>Sept. 2017 – Dec. 2017</i>
Created an Airbnb-like reservation web application, starting from ER diagrams to the web application	
<ul style="list-style-type: none">Wrote over 40 MySQL queries to extract entries to a text-based Java interfaceDesigned a dynamic web application using HTML, bootstrap, and jQuery based off the text-based interface	
Class Project: FFMPEG	<i>Feb. 2017 – May 2017</i>
Explored a largely undocumented codebase to code a .mp4 movie with super-imposed graphics	
<ul style="list-style-type: none">Produced an image codec, both the encoder and decoder, based on the .bmp codec in CCreated a 10 second MP4 by writing C function calls that repeatedly drew, superimposed, and added pixels to an existing image source's pixel dataWrote a makefile to efficiently compile, clean, and execute the custom codec application	
Class Project: Spreadsheet	<i>Feb. 2017 – Apr. 2017</i>
Created and utilized dynamic-link libraries to develop a spreadsheet application	
<ul style="list-style-type: none">Utilized event listeners and handlers to interface between the GUI and backendOptimized code coverage and analyzed performance using Visual Studio toolsEnsured spreadsheet sustainability via unit testing	

LANGUAGES & TECHNOLOGIES

Sep. 2016 – Nov. 2016

Languages: C#; C++; C; HTML/CSS; Java; JSP; MATLAB; MySQL; Python; R; Ruby; shell scripting (Bash)
Environments: Linux (CentOS/Ubuntu); Windows 7/8/10; MacOS
Tools: Adobe Suite (Dreamweaver, Illustrator, InDesign, Photoshop); Autodesk Maya; Bash; Eclipse; GitHub/BitBucket; MatLab; MySQL Workbench; Office 365; Puppet, PuTTY/Terminal; Rails; ServiceNow; WingIDE; Visual Studio; VMWare

CERTIFICATIONS & AWARDS

Awards: Alexander Rutherford Scholarship; Undergraduate Research Opportunity Program Assistantship
Certifications: ITIL v3 Foundations