

PATTAPHOL JIRASESSAKUL

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PROGRAMMING LANGUAGES & TECHNOLOGY

Languages & Software Tools

Languages: C#, JavaScript, Python, Java, C++ ,SQL, LaTeX
Platforms/Frameworks: jQuery, ASP.NET/Core , MySQL, MSSQL,
Entity Framework 6, Angular 5, Google Cloud

Skills

Object Oriented Programming, Software Design, Software Engineering, Database Design, Web Development, Parallel Programming

WORK EXPERIENCE

April 2017-February 2018

Customer Service at TRAINERROAD

Assisted customers in diagnosing hardware/software faults and solving technical problems of the TrainerRoad app or their stationary bike trainers either over the phone or through emails.

September 2017-May 2018

Intern/Senior Project at UNR CYBER-INFRASTRUCTURE LAB & THE NEVADA RESEARCH DATA CENTER

Interned with the University of Nevada, Reno's Cyber-infrastructure lab and the Nevada Research Data Center as a team with two other CSE students for capstone credits.

- Worked with team members and stakeholders to develop a prototype that acts as middle-ware between their data center and visualization package called CHORDS that stores data in AWS.
- NRDC-CHORDS is an open-source interface (made in ASP.NET Web API 2) between the Nevada Research Data Center and CHORDS, a free cloud-hosted data visualization package.
- Technologies/Languages Used: C, JavaScript, ASP.NET Web API 2, Bootstrap, CHORDS , Grafana, Ajax, jQuery, Selenium, JSON.NET , AWS , Google Maps Web API, and PhantomJS

December 2018

Freelancer at DACE-IT

Worked with stakeholder to create a continuous integration pipeline for Dace-IT's visual analytic software to ensure quality software through regular and automated builds.

- I used Google Cloud to host the virtual machines provided by Bitnami (which comes packaged with the GitLab and Jenkins Cloud Environments).
- Used Git to import the source code to GitLab and connect it to the Jenkins CE to create a continuous integration pipeline. This will enable developers to efficiently test and build multiple versions of the software.
- Technologies/Languages Used: Git for Windows, Bitnami, GitLab, Google Cloud, and Jenkins

EDUCATION

MAY 2018	Bachelor's of Science in COMPUTER SCIENCE AND ENGINEERING University of Nevada, Reno Focus: Software Engineering and Web Development	GPA 3.25
JUNE 2014	Associate of Science General Studies College of Southern Nevada, Las Vegas	GPA 3.80

ORGANIZATIONS & LEADERSHIP

- January 2017 - May 2017 : Historian Chair, Kappa Sigma Fraternity (Tau Gamma chapter)
- August 2017 - December 2017 : Risk Management Chair, Kappa Sigma Fraternity (Tau Gamma chapter)

PROJECTS

CHORDS Interface to NRDC	<p>NRDC-CHORDS is an open-source interface (made in ASP.Net) between the Nevada Research Data Center and CHORDS, a free cloud-hosted data visualization package. A senior project for CS 426.</p> <ul style="list-style-type: none">• I implemented an autonomous web scrapper using Selenium to automate CHORDS functionality for users (as the CHORDS API has minimal functionalities that suit our needs).• Made use of Grafana (an open-source visualization system) to upgrade CHORDS's visualization features.• Used Javascript to create a custom Google Maps instance and made asynchronous calls to get images from the NRDC's Webcam Image archive and display them on the map.
Pet Project	<p>A web application made with ASP.Net Razor that aims to help increase the adoption rate of animals in the Nevada area and to also help me gain programming experience.</p> <ul style="list-style-type: none">• I wrote a Python script to scrape data on each of the animal shelters in Nevada from PetFinder's Web API and then used the pyodbc connection library to store them on tables in a local MSSQL server with raw SQL queries• Created a web app with .Net Razor to host and display the scraped data for users interested in pet adoption. Entity Core 2.0 was used to create model objects of each databases in order to avoid using raw SQL queries to interact with the MSSQL server.
Database Manager	<p>A database manager written in Python that I based off of SQLite. It is able to create and persistently store databases/tables. It can also write to a table and read from them as well. Tables are stylized XML documents. This app can accurately parse multi-line queries along with doing insert, update, remove, and joins on tables.</p>