HUNG QUACH

(916).896.4275 | hung.quachv@gmail.com | hungquach.com | linkedln.com/in/hungquach

Objective: A fulltime job in Software Engineer/ Data Engineer.

Qualifications Summary

- *Languages:* Python • C++/C • Java • JavaScript • C#
- *Systems & Software:* Linux/Unix • Visual Studio • Postman
- *Frameworks:* React • Express • TensorFlow • .NET • JUnit
- *Trilingual:* English/Vietnamese/Chinese

Education

- *in progress:* **BS, Computer Science,** CSU Sacramento • GPA: 3.80 • to be completed December 2020
- ***Selected Courses****:* Machine Learning, Data Visualization, Data Mining, Object-Oriented/Graphics/System Programming.

Work Experience

Software Developer Intern • Sacramento Municipal Utility District **May 2020 – Aug 2020**

- Developed a full stack C# visualization tool automating and streamlining access to mission critical data on greenhouse gas emission for the whole region, which reduced **50%** of processing time.
- Used .NET, Dapper, LINQ, LiveCharts.Wpf to make a user-friendly GUI for research analysts and non-technical members.
- Created Windows Form for the team to analyze which decreased more than **80%** of the workload through using MS Excel.
- Designed and optimized Stored Procedures on Microsoft SQL Server, which increased more than **60%** of retrieving data.

Software Engineering Intern • Department of Conservation ***Dec 2019 – May 2020***

- Wrote Python scripts to parse and analyze data from the department website to support USGS for prediction of California's earthquake, which simplified an otherwise complex process of accessing and analyzing data.
- Maintained and designed PHP algorithm connected to SQL server supporting users to retrieve data, which reduced **70% delay**.
- Wrote XML files to display the intensity of earthquakes on Google Map API.

IT System Administrator Intern • State Compensation Insurance Fund ***May 2019 – Aug 2019***

- Served as IT System Administrator responsible for assessing the impact of all system-related changes on integrated functionality to ensure efficient and effective operations are maintained.
- Implemented adequate security controls for the proper safeguarding of confidential data and ensured the integrity of accurate employee information, which led to **100%** free data breach.
- Helped IT team build PowerShell scripts to transfer data from the master server to local computers.

Projects *https://github.com/KevinK88*

Identifying Foliar Diseases in Apple Trees

- Used Google Colab, Tensorflow, Keras, VGG-16 and Scikit-learn to create a neural network that can correctly classify the disease of an apple leaf with high accuracy given the images of the leaf from Kaggle competition.
- Utilized convolution neural networks with multi layers and Transfer Learning to predict the highest F1- score.

Data Analysis Project • Visual Analytic Science and Technology Challenge 2019

- Led a team with five computer science majors developed a python data analysis software to extract data from MIT researchers including CSV and JSON files to predict the severity of earthquakes.
- Used Tableau and Trifactor for removing inaccurate data and to graph the data dynamically using python library.
- Designed to assist government agencies in evacuating populations prior to earthquakes.
- The team's output was shared with MIT for use in their VAST Challenge online project.

Silly Cyborg

- Created an interactive Java game using OOP concepts which implemented in cross-platform from Codename One.
- Designed and implemented MVC Architecture.

Cryptocurrency converter

- Used Express.js, CSS, HTML, TypeScript, jQuery, and Bootstrap framework to develop a cryptocurrency ticker that can display and convert live data on Heroku by taking advantage of API.

Professional Activities & Accomplishments

International Collegiate Programming Contest: Top 5
SCC Hackathon: 3rd place
Member: Vice President of SCC Programming Club
Member: ACM, IEEE, SHPE, SWE, AISES

Chevron Computer Engineering and Computer Science Scholarship
Floyd E. LeCureux Memorial Scholarship
Rorie Family Scholarship in Computer Science
Hornet Leadership Scholarship