HUNG QUACH

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

Qualifications Summary

- BS Computer Science - *December 2020*
- *Languages:* Python • C++/C • Java • JavaScript • C# • PHP
- *Systems & Software:* Linux/Unix • Visual Studio • Postman
- *Frameworks:* React • Express • TensorFlow • .NET • Laravel • JUnit
- *Trilingual:* English/Vietnamese/Chinese

Work Experience

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

- Wrote a full stack C# data visualization tool allowing Grid Operations team to make a prediction for emission.
- Used .NET, Dapper, LINQ, LiveCharts.Wpf to make a user-friendly UI.
- Created a dashboard for the team to easily analyze which decreased more than **80%** of the workload through using MS Excel.
- Designed and optimized Stored Procedures on Microsoft SQL Server.

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

- Wrote Python scripts to parse and analyze data from the website to support USGS for prediction of California's earthquake.
- Maintained and designed PHP algorithm connected to SQL server to support users easily retrieve data reducing **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.
- 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

- Created a neural network model 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 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.

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.

Silly Cyborg

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

Education

- *in progress:* **BS, Computer Science,** CSU Sacramento • GPA: 3.80 • to be completed December 2020
- ***Related Courses****:* Machine Learning, Data Visualization, Data Mining, Computer System Attacks and Countermeasures.

Professional Activities & Accomplishments

Member: Vice President of SCC Programming Club, Associate for Computing Machinery, IEEE, MESA, NSBA, SWE, AISES.

Participant: 3rd place in SCC Hackathon, International Collegiate Programming Contest, HackDavis.