HUNG QUACH

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Objective: A motivated young professional seeking a full-time entry level 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 fetch 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**.
- Utilized **Bootstrap** to create a dashboard for research analysis retrieving data from **SQL Server**.

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.

Selected Projects

Gadgets & Electronic Ecommerce Websites

- Built a **MERN** stack using **React Bootstrap** and **React Routes** to support multiple pages and handle several routes efficiently.
- Developed **Store**, **Action**, and **Reducer** from **Redux** to fetch shopping list items from backend **Express** connected from **Mongoose** database.
- Built a **RESTful API** for users to update profile and applied **JWT** middleware to backend for authentication.
- Developed check out processes and used **PayPal sandbox** to test for placing orders.

Data Analysis Project • Visual Analytic Science and Technology Challenge 2019

- Led a team with five computer science majors developed a python data analysis to extract data from MIT researchers to predict the severity of earthquakes.
- Used **Pandas**, **NumPy**, and **SciPy** for removing inaccurate data and to graph the data dynamically using **Seaborn**, **Tableau**, **Trifactor**.
- Designed to assist government in evacuating populations prior to earthquakes and output was shared with MIT for VAST Challenge.

Identifying Foliar Diseases in Apple Trees

- Used **Google Collab**, **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 **Deep Learning**, **Convolution Neural Networks** with multi layers, and **Transfer Learning** to predict the highest F1- score.

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