HUNG QUACH

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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 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 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 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	Chevron Computer Engineering and Computer Science Scholarship
SCC Hackathon: 3rd place	Floyd E. LeCureux Memorial Scholarship
Member: Vice President of SCC Programming Club	Rorie Family Scholarship in Computer Science
Member: ACM, IEEE, SHPE, SWE, AISES	Hornet Leadership Scholarship