

Tuyen N. Nguyen

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SUMMARY

- Passionate about data analytics to improve business performance and keep track of measurable objectives and goals
- IT Systems Analyst intern at Oregon Department of Transportation for 6 months to ensure system quality and meet system requirements based on testing-driven software development and Agile methodology
- Proficient in using SQL and T-SQL to design normalized and denormalized databases with OLTP and OLAP methods, maintain, automatically update the database and backups, retrieve necessary data to analyze and visualize
- Effectively using Python (Pandas, NumPy) to create applications and work with datasets including cleaning, analyzing, and visualizing data
- Profound knowledge in business intelligence tools such as Power BI and Tableau

EDUCATION

Oregon State University

Estimated Graduation: March 2023

Bachelor of Science, Business Information Systems (Major GPA: 3.76)

- Relevant Coursework: Applied Quantitative Methods, Business Data Management, Application Development, Business Telecommunication and Networking, Information Systems Security

EXPERIENCE

APOST Project - Oregon Department of Transportation

Jun - Dec 2021

IT Systems Analyst Intern

Overview: A web-based system deployment project to store construction data and documents in a single system ensuring data integrity, easily retrieving data and analyzing

- Defined all system requirements by interviewing and collaborating with officers, analysts, and system developers
- Covered all requirements by generating more than 100 practical test cases for system functional test
- Ensured traceability of requirements to test cases
- Generated weekly test report status about system performance and stability for QA and developers

ACADEMIC PROJECTS

Programming Project: Building 3 Python Applications

Jun - Sep 2020

- Developed a financial goal calculator, an inventory calculator, and retrieving time-series stock data application delivered by an API from the website using Python in Visual Studio Code

Course Group Project: Data Analysis and Visualization with Tableau

Jan - Mar 2021

- Utilized multiple regression model and chose appropriate graph to visualize data using Tableau, then found the factors that affected the total income
- Wrote a professional report including methods and concepts of the model

Individual Project: Hotel Database Management and Visualization

Sep - Dec 2021

- Designed and developed a hotel database based on the OLTP concept to reduce transaction processing time
- Utilized T-SQL code to create backups, stored procedures, functions, transactions, indexes, and views in Microsoft SQL Server to keep the data updated, ensure data quality and integrity, and save time to duplicate the tasks
- Created a pipeline to automate loading data from CSV data files to SQL Server database and creating dashboards in Power BI to reduce manual work

Individual Python Project: Sales Data Analysis with Pandas Library

Dec 2021

- Gathered 12 CSV files from GitHub to a single file in Jupyter Notebook
- Cleaned data to get rid of data duplication and invalid values with Pandas library, then analyzed to answer data analysis questions about revenues, distributions, and products sold
- Visualized data by Matplotlib library

AWARDS

- International Student Continuation Scholarship 2020, 2021
- International Student Honor Roll 2019, 2020, 2021