

Thang K. Tran

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EDUCATION

University of Massachusetts, Lowell | Lowell, MA

May 2025

Bachelor of Science in Business Administration - Management Information Systems

Relevant Coursework: Introduction to Business Analytics, Business Information Systems, Business Applications Development, Database Management Systems (IL), Data Communications and Networks (QL), Systems Analysis and design, Data Mining For Business Intelligence.

SKILLS & TECHNICAL TOOLS

Languages: SQL, Python (Pandas/Numpy), DAX

Technologies: Power BI, Tableau, Github, Git, Jira, Microsoft Word, Microsoft Excel, Microsoft Powerpoint, Microsoft Access, IdeaMaker, Rapidminer, SSMS.

EXPERIENCE

Process Engineering Co-op | Lightforce Orthodontics

July 2023 - May 2024

- Conducted quality assurance testing for proprietary scanning and processing software. Debugged Python-based software modules, accelerating issue resolution alongside engineers.
- Partnered with engineers to optimize 3D-printed ceramic orthodontic braces, improving structural precision and adopting the use of advanced additive manufacturing processes increasing functional yield by 11%.
- Managed a full 3D printing pipeline using IdeaMaker and 10+ printers, producing custom marketing components with 90%+ print reliability.

PROJECTS

Healthcare Insurance Cost Explorer | Python, Excel, Pandas, Numpy, Github

- Developed a Python-based dashboard visualizing insurance charges for 1.3k+ policyholders; enabled interactive filtering by age, BMI, region, and smoking status.
- Conducted exploratory data analysis on over 10 variables and feature correlation, identifying smoking status as a top cost driver with 300%+ impact on insurance charges.

Sales & Profits Analytics | Power BI, Excel

- Designed a 4-page interactive dashboard analyzing \$2M+ in sales and profitability across products, cities, and channels. Uncovered key regional trends and purchasing patterns.
- Implemented custom DAX measures for KPIs such as margin, cost, and AOV, incorporating interactable visuals and user-friendly navigation.

Automobile Performance | Tableau, Excel

- Created an interactive dashboard analyzing 1970-1982 automobile data for 300+ different cars across 29 unique brands and 3 countries.
- Applied calculated filters to clean data and maintain consistent interactivity along with dynamic KPI cards, integrated scatter plots, bar charts, and line graphs revealing the sales performance across key dimensions such as brands, models, regions and more.

Holiday Impact On Retail Sales | Power BI, Excel, Github, SQL

- Engineered a star schema using a raw CSV in SQL server. Designed modular ETL pipelines to ingest and validate 6k+ rows of data.
- Built DAX-based KPIs and slicers to show holiday-driven revenue spikes; verified all visuals against SQL aggregates.