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 Excel, AWS (S3, Athena), Rapidminer, SQL Server Management Studio.

EXPERIENCE

Process Engineering Co-op | Lightforce Orthodontics   *July 2023 - May 2024*
- Analyzed production data to optimize 3D-printed ceramic orthodontic braces, improving structural precision and adopting the use of advanced additive manufacturing processes increasing manufacturing yield by 11%.
- Conducted regression tests with Python for proprietary scanning and processing software and debugged Python modules to accelerate issue resolution alongside engineers.
- Streamlined 3D printing workflow across IdeaMaker and production tools, improving marketing component output by 24%.
- Performed resin stress testing and delivered performance reports that informed selection of dental mold materials.

PROJECTS

Holiday Impact On Retail Sales | *SQL, Power BI, Excel, Github*
- Built a sales analytics dashboard identified 52% YoY surge in holiday sales, identifying peak revenue months for inventory optimization and demand planning.
- Designed SQL-based ETL pipelines to ingest and clean 6k+ transaction records, engineered star schema for scalable BI reporting in Power BI.

Census Data Analytics Pipeline - U.S. Education & Income Trends | *AWS (S3, Athena), Power BI, Python, Excel*
- Engineered an automated Python + Census API ETL pipeline into AWS, processing every county in the nation (2015-2020) for scalable analysis.
- Delivered a Power BI insight storyboard quantifying regional gains in bachelor's attainment and income, enabling state by state comparisons of education attainment and income growth.

Sales & Profits Analytics | *Power BI, Excel*
- Designed an interactive dashboard analyzing $2M+ in sales and profitability, highlighting high-margin products and underperforming regions to support pricing and promotion strategies.
- Translated raw cost and revenue data into KPIs to demonstrate profitability insights across regions and products.

Healthcare Insurance Cost Explorer | *Python (Streamlit/Plotly), Excel, Github*
- Developed a Python-based data visualization tool analyzing 1.3k+ insurance policyholders, revealing smoking status as a 50%+ cost driver and enabling filtering by BMI, region, and gender.
- Automated feature correlation and outlier detection in Python (Pandas, NumPy) to support pricing strategy and health risk modeling.