

Quan Hoang

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EDUCATION

Bentley University

Bachelor of Science, Actuarial Science

GPA: 3.80/4.00 Minor in Business Studies

Honors: Provost's Scholarship; Bentley Investment Group, President's List for Spring 2022, Fall 2022, Spring 2023

Related Course: Generalized Linear Model, Cluster Analysis, K-Nearest Neighbor, CART, Survival Analysis, Tableau

Waltham, MA

January 2022 – December 2023

PROFESSIONAL EXPERIENCE

At-Bay

Pricing Actuarial Intern

San Francisco, CA

June 2023 – August 2023

- Pulled data from data warehouse using SQL to perform ad hoc analysis to inform data-based decision making
- Build At-Bay first SQL table for all coverage level loss by aggregating and implementing conditional statements
- Leveraged actuarial methods to advise and execute pricing initiatives on customer groups pricing implementation
- Reviewed and understood key drivers of trend and loss development for Cyber, Tech E&O and other lines of business and share those insights with key decision makers (i.e. head of insurance and head of underwriting)
- Automated python files export for trends analysis via 'matplotlib' and 'pandas'

Travelers

Winner of Case Competition

Hartford, CT

February 2023

- Developed multiple data visualization views to demonstrate pet demographics and loss data for customer groups
- Calculated selected factors for new rating plan with Microsoft Excel and concepts in supplement reading
- Understood actuarial concepts, such as monotonicity, credibility, and correlation, for choosing rating variables

Casualty Actuarial Society

Case Study Competitor

Remote

June 2022 – August 2022

- Collaborated with group members on pricing insurance case competition for phone insurance company and presented findings, including fraud preventions, and reducing business expense, to a panel of practicing actuaries
- Constructed interactive form for underwriting purposes, created functions to project ultimate loss, used pivot table to identify key drivers for revenue loss while picking up Microsoft Excel technical skills

AWR Lloyd, Asia Strategy and M&A Advisory Firm

Analyst Intern

Saigon, Vietnam

September 2020 – October 2020

- Collected information and data of Xuan Hoa Joint Stock Company, such as gross profit, EBITDA, and company's facilities, to construct a company report for AWR Lloyd's investor clients
- Researched and gathered financial data of 10 Asia key players in Liquefied Natural Gas (LNG) industry using Capital IQ to help Petrolimex Vietnam find investors for upcoming construction of new LNG storage
- Conducted research on mobile marketing industry to analyze how client company was compared to competitors in terms of range of services provided, management team, and financial activities

PROJECT EXPERIENCE

Bike Sharing Analysis

MA 380 Generalized Linear Models and Survival Analysis

Waltham, MA

November 2023

- Built models to predict number of bikes usage in a given hour
- Conducted analysis of 17,500 rows bike-sharing dataset using 'tidyverse', 'statmod' and 'MASS', applying exploratory tools (building graphs and identifying correlation) to identify suitable predictor variables
- Communicated key findings from analysis, and translated technical information to business-friendly language

Interactive Airport Data-Explorer Web Application

CS 230 Programming with Python

Waltham, MA

April 2023

- Develop an interactive data-driven web-based Python application with user-friendly queries and 4 interactive exploration features, ensuring compelling and engaging user experience
- Utilized 'Pandas' modules to manage and analyze 54,000 rows airport data, integrated 'Matplotlib' for visualizations, and incorporated 'PyDeck' for mapping feature

SKILLS

- Computer: R (tidyverse, GLMs, K-nearest neighbor, survival analysis, cluster analysis); Python (pandas, matplotlib, pyDeck); Excel (Pivot Table, INDEX&MATCH, VLOOKUP); SQL (SUMIFS, COALESCE, GROUPBY)

AWARDS & CERTIFICATIONS

Certificates & Achievements: IACT Learning (Excel proficiency), Udemy Certificate (MySQL proficiency), Data Camp Certificate (R proficiency), BMC (Bloomberg Certification), SOA P & FM, Professional Slack Meme Poster