

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: Regression Analysis, Generalized Linear Model, Theory of Interest, Data Mining

Waltham, MA

January 2022 – December 2023

ACTUARIAL EXAM

- SOA Exam Financial Mathematics (CAS II equivalent) June 2023
- SOA Exam Probability (CAS I equivalent) January 2023

PROFESSIONAL EXPERIENCE

At-Bay

Pricing Actuarial Intern

San Francisco, CA

June 2023 – August 2023

- Developed new rating factors for insured revenue groups by building six models to view loss ratios' and bind ratios' performance and presented rate changes to key staffs for future pricing model implementation
- Performed financial fraud rate indication by doing BF loss development and analyzing loss and premium trends
- Build new SQL table for coverage level loss such as claim count with payment and assigned coverage loss
- Automated python files export for premium and loss trends analysis via 'matplotlib' and 'pandas'

Travelers

Winner of Case Competition

Hartford, CT

February 2023

- Performed analysis on historical pet exposures data using pure premium relativity, loss frequency, and severity
- Understood actuarial concepts, such as monotonicity, credibility, and correlation, for choosing rating variables
- Calculated selected factors for new rating plan with spreadsheet software and concepts in supplement reading

Casualty Actuarial Society

Case Study Competitor

Remote

June 2022 – August 2022

- Collaborated with group members on a case competition pricing an insurance plan for phone insurance company and presented final projects to a panel of practicing actuaries
- Constructed interactive form for underwriting purposes, created function to project ultimate loss, used pivot table for data analyzing while picking up Microsoft Excel technical skills
- Completed seven training modules and developed better understanding on a variety of P&C topics including pricing, reserving, and data visualization

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 used 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 predictor variables
- Enhanced statistical models through diagnostic analysis to ensure quality of produced models
- Communicated key findings from analysis, and translated technical information to business-friendly language

SKILLS

- Languages: English (fluent), Vietnamese (native)
- Computer: SQL, R (tidyverse), Python (pandas), Microsoft Excel (INDEX&MATCH, VLOOKUPS, pivot table)

AWARDS & CERTIFICATIONS

Certificates & Achievements: IACT Learning (Excel proficiency), Udemy Certificate (MySQL proficiency), Bentley Plus, CAS Student-Mentor Summer Program 2022, Data Camp Certificate (R proficiency), BMC (Bloomberg Certification)