

PROGRAMMING SKILLS

- **Languages:** Excel/VBA, Python, MySQL, Java, JavaScript, C++, LaTeX
- **Technologies:** Git, Linux, J2EE Web Development

PROJECTS

- **Operations Management**
*Designed a data-oriented operations management system using **Excel/VBA*** *Oct. 2018*
 - Completed a login interface which allows user to log in to the program based on a password and give different clearances to different users
 - Implemented easy-to-use operation functions (add, remove, modify orders and transactions) to keep track of input purchase and sales with programming in Userform and other VBA objects
 - Calculated the pay for each employee, which includes finding sales revenue and wage/commission schedule suitable using Excel built-in functions, such as VLOOKUP, INDEX, MATCH, etc.
 - Organized all operating data into Income Statement and achieved automation through VBA programming
- **Stock Price Prediction (Excel Financial Modelling)**
Predicted Stock Price based on a company's financial statement by utilizing the Excel Tools *Aug. 2019*
 - Constructed financial model to forecast future 5-year financial performance(EBITDA, CapEx, Free Cash Flow, etc.)
 - Evaluated a company and calculated its expected stock price using Discounted Cash Flow analysis
 - Conducted a sensitivity analysis using data table tool in Excel to obtain different stock price as perpetual rate and cost of capital varied
 - Made a Football Chart to visualize the comparison of possible maximum and minimum stock price in different prediction methods
- **Customer Analytics for a Car Insurance Company**
Python(numpy, pandas, matplotlib, statsmodels, scikit-Learn) *Jun. 2019*
 - Built a predictive model using a random forest algorithm with scikit-learn package
 - Conducted exploratory data analysis to segment customer base using Panadas
 - Visualized the engagement rate through a bar chart based on Customer Lifetime Value and Months Since Policy Inception
- **Management of a Chain of Movie Rental Stores**
Extracted and organized data from database to support business decisions on replenishment strategies *Nov. 2018*
 - Queried data from database by using advanced MySQL skills
 - Designed and developed inventory reports to track and monitor product availability at each store
 - Created monthly reports to monitor 1000 products' sales performance by each store location

EXPERIENCE

- **Serva Software CO., Ltd** Shanghai, CN
Software Engineer Intern *May. 2018 - Aug. 2018*
 - Created login and sign-up function of the CRM system through manipulating and querying MySQL database
 - Implemented the data dictionary function in the CRM system, improving data reading efficiency by 35%
 - Developed functions to show market activities, customer transaction and contact information using AJAX in JSP
 - Enhanced the level of user accounts security using MD5 encryption and Converted all data objects in the back end to JSON String using Jackson

EDUCATION

- **University of Waterloo** Waterloo
Candidates for B.A. in Mathematical Economics *Sept 2017 - Present*
 - Transferred from Computer Engineering