Eamon Zhao

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Programming Skills

- **Languages**: Excel/VBA, Python, MySQL, Java, JavaScript, C++, LaTeX

- **Technologies**: Git, Linux, J2EE Web Development

Work 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
  - Used Apache Commons File Upload to import Excel spreadsheet and Apache POI to export Excel spreadsheet
  - Enhanced the level of user accounts security using MD5 encryption and Converted all data objects in the back end to JSON String using Jackson

Projects

- **Operations Management**   Excel/VBA
  Designed a data-oriented operations management system
  - 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)**   Excel
  Predicted Stock Price based on a company's financial statement by utilizing the Excel Tools
  - 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*)   *Python*
  - 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**   MySQL
  Extracted and organized data from database to support business decisions on replenishment strategies
  - 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

Education

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