Patrick YANG | YANG Qiyu

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Summary

o Practical software engineering experience in investment bank, with strong analytical skills and a broad range of computer expertise.

o Good communication skills, proven adaptability to differing cultural and business environments.

o An devoted team player who enjoys learning new skills.

Education

The Hong Kong Polytechnic University — **Hong Kong**
Master of Science in Information Technology — *2016.09 – 2017.12*

Civil Aviation University of China — **Tianjin,China**
Bachelor of Science in Aeronautical Engineering — *2009.09 – 2013.07*

China University of Science and Technology — **Taiwan**
Exchange Student — *2012.02 – 2012.07*

Work Experience

Societe Generale Corporate & Investment Banking — **Hong Kong**
Information Technology Department/Finance, Risk & Market Data Team/Intern — *2017.02 – 2017.08*

- Developed 3 web appliactions for internal customers (Risk & Finance Dept) with latest web technology stacks
- Worked in a international Agile / Scrum team to create and update project sites used by customers worldwide
- Created visually impactful dashboards in web applications for data reporting by using Highcharts, D3js

Projects:

o Data Visualization Proof of Concept for Risk Dept:
  - Built an online data visualization & analysis platform for bank's risk data
  - Rewrote risk metrics calculation VBA program with Python, added web service. Created web application for visualization with AngularJS and D3js. The platform also provided APIs for Excel.
  - The second prize in risk department global innovation projects. 30 people used this PoC in daily work. Users could get dynamic interactive KPI charts without running the slow macro.

o Client Data Management Project for Finance Dept:
  - Enhanced the user experience of a year-long project for Australia office, created UI with better libraries for new functions. Transformed this project into a global project.
  - Collaborated with dev team in India. Joined daily scrum meetings with customers from 4 countries. Upgraded the front-end framework version (AngularJS 1.6) and the .NET(C#) backend. Fixed compatible issues with team.
  - Released project with new UI for Hong Kong and Singapore office. Accelerated average data loading time by 25% or more.

o Data Process Proof of Concept for Finance Dept:
  - Built a data process and visualization platform by Python, HighCharts & Angular. Replaced manual computation
  - Collected, cleansed and provided analysis and visualization of the finance data for report automatically

The Hong Kong Polytechnic University — **Hong Kong**
Research Assistant (Part-time) — *2016.10 – 2017.02*

- Designed and built statistical analysis models on professor's research data. Extracted, interpreted and analyzed data to identify key metrics and transform raw data into meaningful, actionable information
- Developed a program using multi-layer neural network and TensorFlow to recognize handwritten letters in a test set

Shenzhen Airlines — **Shenzhen, China**
System Development Engineer — *2013.07 – 2016.07*

- Worked in teams of developing web applications for internal customers
- Contributed software engineering expertise in the development of products through the software lifecycle, from requirements definition through deployment
- Managed databases that consolidated information from flight data and maintenance log

Project:

o Aircraft Maintenance Data Query System & Data Warehouse:
  - Assisted data modeling and database(Oracle DB) design & development by using ELT techniques
  - Participated in the development of web program by using Java/Spring Boot/Struts/Hibernate/HTML
  - Communicated with colleagues and improved the system's user experience according to their demands

Skills

Languages: English(Fluent), Mandarin(Native)

Framework: SpringBoot, Hibernate, Angular, Flask

Tools: IntelliJ IDEA, PyCharm, WebStorm, VSCode

Database: SQL(MySQL, Oracle), NoSQL(MongoDB)

Operating System: Linux, Windows, macOS

Version Control: Git, SVN

Coding: Java, HTML, CSS, C#,JavaScript/TypeScript, SQL, Python, Object-oriented design,Data Structures & Algorithms, Agile