Aaron (Shixiang) Zhou

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EDUCATION

Columbia University (CU), New York, NY — Sept. 2016 – Dec. 2017 (expected)
Master of Science, Industrial Engineering — GPA: 3.83

University of Michigan (UM), Ann Arbor, MI — Sept. 2014 – Apr. 2016
Dual Degree Program: Bachelor of Science, Industrial and Operations Engineering — GPA: 3.86

Shanghai Jiao Tong University (SJTU), Shanghai, China — Sept. 2012 – Aug. 2016
Dual Degree Program: Bachelor of Science, Electrical and Computer Engineering — GPA: 3.63

PROFESSIONAL EXPERIENCE

International Business Machines Corporation (IBM), Shanghai, China — Jun. 2017 – Aug. 2017
Client: SAIC Volkswagen (SVW), Shanghai, China
Business Analyst Intern. SVW B2B2C E-commerce Development

- Assisted product manager to manage SVW B2B2C E-commerce development project with 20+ people based on agile development methodology
- Facilitated weekly meetings with clients to analyze requirements and explore potential solutions
- Drafted and maintained product requirement documents (PRD), and align them with tangible deliverables such as user stories, user journey map, Axure prototype, functional specifications and technical requirements
- Launched SVW E-commerce website (alpha version) in two months before client's deadline

Jennison Associates LLC, New York, NY — Oct. 2016 – Feb. 2017
Applications Intern. Automated testing for ERP system

- Created and executed automated test plans, cases and scripts to uncover, identify and document company ERP system's problems and their causes
- Conducted different levels of testing including unit, functional, and user acceptance
- Eliminated 90% manual test time, minimized the possibility of human error during testing

PROJECT

Industrial and Operations Engineering, CU, New York, NY — Mar. 2017 – May 2017
INFORMS Challenge: Dynamic Pricing under Competition

- Coded Python module learning in a competitive environment competing for revenue with fellow participants
- Applied EM algorithm to mixed multinomial logit model, used sorted SAA to estimate competitors' prices
- Beat 90% competitors and kept stable revenue over iterations

UM-SJTU Joint Institute, SJTU, Shanghai, China — May 2016 – Aug. 2016
Client: Siemens, Shanghai, China. *Capstone Design: Pocket Lab – Remote VR Monitoring*

- Built a remote lab monitoring system using virtual reality and IoT technology
- Developed Python-based back-end cloud server processing data with Ubuntu, MySQL and web service
- Created Django-based website visualizing real-time data by presenting HTML5 dashboard
- Won Gold Award (top ranked) out of 30+ teams

Industrial and Operations Engineering, UM, Ann Arbor, MI — Jan. 2016 – Apr. 2016
Client: Urban Science, Detroit, Michigan. *Capstone Design: Dealership Ordering Optimization*

- Developed linear programming algorithm in Python suggesting optimal inventory level for dealers
- Derived key parameters in vehicle selling, conducted regression analysis to predict sales and lead time
- Increased $60K annual profit per dealer in simulation

ADDITIONAL

Programming Language: C#, C/C++, Python, R, MATLAB, SQL, HTML/CSS, JavaScript, VBA
Software: MS Office, Axure, Visio, Mathematica, Minitab, Vim, MySQL, MongoDB