Duanchen Liu

U.S. Permanent Resident • duanchen.liu@gmail.com • 617-806-6967

EDUCATION

Boston College, Chestnut Hill, MA

August 2016 – December 2019

B.A. in Computer Science and Applied Psychology, Overall GPA: 3.939, Rank: 4/177

• Summa Cum Laude & Alpha and Omega Honor Society & First Honors, Dean's List (all semesters)

WORK EXPERIENCE

Technology Consultant - Cloud, Data & AI, EY, Boston, MA

September 2020 – Present

- Applied expertise in ML to an inventory optimization project for a Global Fortune 50 retail pharmacy; Developed PySpark code in Databricks to run simulation and cut run time from 5 hours to ~30 minutes; Efforts resulted in a \$180 Million in working capital savings for the client
- Designed and implemented data re-platform solutions to move event data into Azure Data Lake Storage Gen 2; Created reporting views within Azure Synapse and consumed in Power BI for data visualization
- Coordinated Azure and Databricks partners training courses for the EY Microsoft team of 150+ people; Wrote technical whitepaper for topics including Azure Auto ML, Azure Synapse, Azure Dataflow, and Power BI
- Led 50+ internal workshops and initiatives (practice development, learning champion, project pursuits)

Research Fellow, Dept. of Computer Science, Boston College, Chestnut Hill, MA

March 2020 – Present

- Conducted research in NLP focusing on pragmatic expression in adults with autism spectrum disorder
- Annotated conversation utterances for features (politeness, uncertainty, informativeness, speech acts); Identified distinctive pragmatic features of ASD; Developed neural models to predict features and yielded higher accuracy than previous approaches (with F1 exceeding 0.82 for politeness, uncertainty, informativeness)
- Presented research poster in INSAR 2021; Published paper in ACL-IJCNLP SRW 2021

Advisory Consultant Program Intern, EY, Boston, MA

June 2019 – August 2019

• Supported the Customer Experience team of 10+ people in research and presentations; Led client meetings and consolidated meeting minutes; Designed a Digital Lab strategy for a Global Fortune 200 agricultural conglomerate; Helped formulate a strategy for next generation of growth in Digital Commerce across the client's businesses

Compliance Department Intern, MediaTek, Woburn, MA

June 2018 – August 2018

- Simplified risk assessment process by creating online questionnaire to maximize efficiency
- Evaluated 15 companies' survey systems and ultimately saved money by choosing the in-house system
- Developed 20-page instruction manual for the official company survey system
- Collaborated with IT to present compliance department's needs to make decisions regarding in-house system

Marketing & Strategic Relationship Analyst Intern, BrainCo Inc., Somerville, MA

April 2018 – August 2018

- Wrote and designed the official company brochure (English and Chinese versions)
- Worked with team of 20+ to write business plans to present to Chinese Government and investment companies
- Helped identify potential new clients: presented company's product and service to CEO of one of the biggest
 education agencies in China; Cited on a Chinese patent application for Focus EDU APP for contributing ideas
- Named Outstanding Intern (among 15 interns) by the marketing department

Police Cadet, Lexington Police Department, Lexington, MA

June 2017 – August 2019

- Prepared and tabulated figures for statistical purposes; maintained and filed records; operated office machines
- Enforced parking regulations by patrolling community and writing tickets

LEADERSHIP EXPERIENCE

President, Women in Computer Science, Chestnut Hill, MA

August 2018 – December 2019

- Updated mission statement to emphasize support and collaboration; Implemented team-based restructuring to improve efficiency; Organized Eboard meetings every two weeks to reflect and to plan for coming weeks
- Collaborated with companies and other school clubs on information sessions, speaker series, and workshops

Mentor & SAT Tutor, Let's Get Ready, Tufts University, Medford, MA

June 2017 – August 2017

- Supported a group of 7 students in raising their SAT scores an average of 50 points over the course of 3 months
- Conducted college counseling to guide students through application, financial resources, and future plans

Founder & President, Tracks Acappella Group, Beijing, China

September 2015 – September 2016

- Founded my high school's first acappella group (15 students), held conference and concerts with 5 schools
- Became the 1st student group in 100 years to win the title of *Top Ten Clubs* in school in its first year
- Performed at high school Centennial Anniversary, Chinese Academy of Science; Held charity auction concerts

EXTRACURRICULAR ACTIVITIES

Arts Committee Chair, Campus School of Boston College, Chestnut Hill, MA

September 2017 – August 2018

Organized musical and theatrical entertainment and secured 5 sponsors for holiday parties and arts show

Soprano Singer, University Chorale of Boston College, Chestnut Hill, MA

September 2016 – Present

• Performed 40+ songs at Pops on the Heights, Fall Concert, Christmas on the Height, and Winter Concert

Piano Plaver January 2003 – Present

• Highest level in Chinese Musicians Association; played solo at pianist, Chen Qi's recital, with 1000+ audience

SKILLS

- Technical: Python; Spark; Java; C; JavaScript; HTML; d3.js; SQL; DAX; Tableau; Power BI; Databricks; Azure
- Languages: Chinese Mandarin (native); English (fluent); Spanish (basic)
- Certificate: Azure Fundamentals, Azure Data Fundamentals
- Patent (in China): Mobile Application UI Design (QR code on the right)

