Duanchen Liu

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Education

Boston College, Chestnut Hill, MA   08/2016 – 12/2019
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   09/2020 – present
- Applied expertise in machine learning 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, with team 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 Assistant, Dept. of Computer Science, Boston College, Chestnut Hill, MA   03/2020 – present
- Conducted research in NLP focusing on pragmatic expression in adults with autism spectrum disorder
- Annotated conversation utterances for language features, identified distinctive pragmatic features of ASD, developed neural models to predict features and yielded higher accuracy than previous approaches

Teaching & Lab Assistant, Dept. of Computer Science, Boston College, Chestnut Hill, MA   12/2018 – 12/2019
- Selected by the Computer Science department to act as a salaried assistant to Professors through tutoring session for the Logic and Computation course, led Computer Organization labs with 15+ students

Advisory Consultant Program Intern, EY, Boston, MA   06/2019 – 08/2019
- 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   06/2018 – 08/2018
- Simplified risk assessment process by creating online questionnaire to maximize efficiency
- Developed 20-page instruction manual for the official company survey system
- Collaborated with IT to build in-house risk assessment system incorporating compliance department's needs

Marketing & Strategic Relationship Analyst Intern, BrainCo Inc., Somerville, MA   04/2018 – 08/2018
- Wrote business plans and official company brochure with a team of 20+ to present to investment companies
- Identified new clients: presented company's product to CEO of one of the biggest education agencies in China

Police Cadet, Lexington Police Department, Lexington, MA   06/2017 – 08/2019
- Tabulated figures for statistical analysis, supported 200+ incidents, organized community events, patrolled community
- Created profiling handbook for disabilities and mental illnesses to identify needs of different groups of people

Leadership Experience

President, Women in Computer Science, Chestnut Hill, MA   08/2018 – 12/2019
- 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

Arts Committee Chair, Campus School of Boston College, Chestnut Hill, MA   09/2017 – 08/2018
- Organized musical and theatrical entertainment and secured 5 sponsors for holiday parties and arts show

Mentor & SAT Tutor, Let's Get Ready, Tufts University, Medford, MA   06/2017 – 08/2017
- 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 A Cappella Group, Beijing, China   09/2015 – 09/2016
- Founded my high school's first a cappella group (15 students), held charity auction concerts with 5 others schools
- Became the 1st student group in 100 years to win the title of *Top Ten Clubs* in school in its first year

Publications

- C. Yang, **D. Liu**, Q. Yang, Z. Liu, and E. Prud'hommeaux. Predicting pragmatic discourse features in the language of adults with autism spectrum disorder. In 2021 ACL & IJCNLP joint conference SRW
- C. Yang, **D. Liu**, A. Canfield, et al. Distinctive features of pragmatic expression in adults with autism spectrum disorder. In 2021 Annual Conference of the International Society for Autism Research

Extracurricular Activities

- Piano Player: highest level in Chinese Musicians Association, played at Chen Qi's recital with 1000+ audience
- Soprano Singer: lead singer in Beijing Jinfan Choir, performed with Boston Pops Orchestra at philanthropy concerts

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, Azure AI Fundamentals
- Patent (in China): Mobile Application UI Design (QR code on the right)