LOGAN CHANG

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EDUCATION

DARTMOUTH COLLEGE **Hanover, NH**
Bachelor of Arts, Computer Science and Economics *2020-2024*

- Current GPA: 3.97/4.0
- Honors: 2020-21 *Rufus Choate Scholar* (First Honors Group/Top 5% GPA), 2021 ITA Scholar-Athlete
- Varsity Student-Athlete on the Men's Tennis Team
- Member of Dartmouth Investment and Philanthropy Program (DIPP), Dartmouth Sports Analytics, Student-Athlete Advisory Committee, Beta Alpha Omega Fraternity
- Relevant Coursework: Objected-Oriented Programming (Java), Smartphone Programming (Java), Foundations of Applied CS (Python), Discrete Mathematics for Computer Science

SELECTED PROJECTS

JoyShare – AR Gift Sending Mobile App (Java)

- Collaborated on developing and deploying an Android mobile application allowing users to send virtual gifts to one another
- Utilized **Firebase Cloud Storage** to store and retrieve backend user and gift multimedia data
- Integrated **ARCore** and **Unity** to provide users an interactive miniature-golf AR experience when opening gifts sent to them

Chicago Police Dept. Brutality Analysis (Python, C++)

- Scraped over 600,000 reported crimes, 120,000 official police reports, and 75,000 civilian complaints in the City of Chicago's public databases from 2004 to 2016 with **BeautifulSoup** and **C++**
- Compiled, cleaned, and performed exploratory data analysis on geographic regions' rates of police brutality, police-caused injuries, arrests, and reported crimes using **pandas**, **seaborn**, **matplotlib**
- Collected socioeconomic and demographic data on all 271 police districts in Chicago using **geojson** scraping algorithm
- Developed correlation tables and machine learning models to determine primary demographic factors contributing to areas of higher police brutality with **scikit-learn**

Neural Network for MNIST Handwritten Digit Classification (Python)

- Engineered a neural network to classify the MNIST Handwritten Digit dataset from scratch with 85-90% accuracy
- Optimized network performance by applying several non-linear activation functions (ReLU, Sigmoid, Softmax) and adjusting network architecture
- Constructed least-squares model for Handwritten Digit Classification with 45-55% classification accuracy

PROFESSIONAL EXPERIENCE

SUMMER INVESTMENT ANALYST INTERN **Denver, CO**
Blue Room Investing *June 2021 – August 2021*

- Covered Activision Blizzard Inc. and produced research reports and valuation models for ATVI
- Worked closely with BLUE ROOM's founder and full-time employees to provide recommendations for the company's investment fund launches and research database
- Curated content for weekly Weekend Update newsletters, providing readers with points of current economic and political interest

ANALYST/MEMBER **Hanover, NH**
Dartmouth Investment and Philanthropy Program *September 2020 - Present*

- Provide insight into advising program's management of its $550,000 equity portfolio
- Conduct independent firm and industry research, build valuation models, and present stock pitches with teams of other members
- Identify local philanthropic organization to donate a portion of the portfolio's proceeds to

SPONSORSHIP OUTREACH COORDINATOR **Long Island, NY**
TeenHacks LI *September 2018 – June 2019*

- Directed sponsorship outreach team resulting in over $60,000 in sponsorships for multiple hackathon events for over 2,000 participants to attend our events for free
- Assisted in curating events recognized by Fox Business, Wall Street Journal, Newsday, and Congressman Tom Suozzi
- Recruited computer science professors and leaders of tech businesses to lead workshops and mentorship programs

SKILLS

- Languages: Java, Python, R, HTML/CSS, C++
- Technologies: AndroidStudio, Firebase, Pandas, Selenium, scikit-learn, BeautifulSoup, Seaborn