Leonard Tang

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Education

HARVARD UNIVERSITY   Cambridge, MA
A.B. Candidate in Mathematics and Computer Science   May 2023
- Selected Coursework: Real Analysis, Abstract Algebra, Applied Linear Algebra and Big Data, Data Structures and Algorithms, Probability, Theory of Computation (Graduate), Data Science (Graduate)
- GPA: 3.89/4.00

GLASTONBURY HIGH SCHOOL   Glastonbury, CT
Valedictorian   June 2019
- ACT: 36/36/36/36

Experience

HARVARD MATH DEPARTMENT
Course Assistant   September 2020 – Present
- Course Assistant for Math 22a: Linear Algebra and Vector Calculus I (Proof-Based)
- Graded problem sets, held office hours, and taught seminars on linear algebra in machine learning

KREIMAN LAB – CBMM   Boston, MA
Research Assistant   May 2020 – Present
- Developed top-down, context-aware object recognition architectures and contextual adversarial attacks
- Built graph-based convolutional neural networks using PyTorch and MATLAB
- Generated synthetic images with systematically altered contextual properties using Python and Unity
- Designed and implemented human recognition experiments using Amazon MTurk and JavaScript

HARVARD COLLEGE CONSULTING GROUP   Cambridge, MA
Associate   September 2019 – Present
- Identified supply chain risks and subsequent pricing impacts for a Fortune 100 manufacturing company
- Mapped the digital customer journey for a Fortune 500 American multinational hospitality company to guide the client's digital initiatives to align with consumer segment needs
- Cleaned and analyzed a patient injury recovery dataset in order to model recovery rates and develop data-driven recommendations on optimizing sales strategy for a wellness and performance lifestyle company

KEY CLUB   Glastonbury, CT
President   September 2017 – June 2019
- Managed over 275 members of Key Club International's Glastonbury chapter
- Raised over $10,000 and 5,000 non-perishable goods for neighboring food-insecure communities

Selected Independent Projects

EQUITY FORECASTER   September 2019
- Designed a novel and accurate (i.e. 10% MAPE) stock prediction model by synthesizing sentiment analysis on Twitter and StockTwits comments and support vector machine regression
- Tailored an HTML scraper to collect user comment data on Twitter and StockTwits
- Presented project to a symposium with over 500 attendees

Skills & Interests

Technical Skills: Python, PyTorch, MATLAB, Java, HTML, CSS, Microsoft Suite, and C
Languages: Mandarin (professional), Shanghainese (conversational), and French (conversational)
Interests: Blues guitar, classical violin, NBA, tech podcasts, Elon Musk's Twitter account, and the Grateful Dead