

Ali Hindy

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WORK EXPERIENCE

Ellington Management Group (~13.5bn AUM Hedge Fund) Jun 2022 - Dec 2022

Quantitative Research Analyst Intern New York, NY

- Developed CLO risk sensitivity models based on CDX HY using custom logistic equations and corresponding web app used to hedge \$50m+ in CLOs and CDOs
- Implemented deep learning models trained on over 20m corporate callable and bullet bonds to predict bond flat spreads given interest rate and credit volatility, now standard production model

Stanford Autonomous Systems Lab (advised by Rachel Luo) Nov 2021 - Present

Machine Learning Research Stanford, CA

- Researched novel conformal prediction and deep learning methods on out of distribution data points for autonomous systems using NASA's XPlane simulator, Published: ICRA 2022

Point Pickup Technologies (Series B Transportation Tech Startup) Summer 2021

SWE & Data Science Intern Stamford, CT

- Implemented computer vision models using optical character recognition to validate driver's license photos (to prevent user fraud) deployed on an app with over 250,000 users
- Wrote sentiment analysis software for analyzing 2,000+ app store reviews to improve ratings

Yakera (Series A Crowdfunding Startup) Summer 2021 - 2022

Product Lead Remote

- Led a team of 18 software engineers to develop crowdfunding website using React.js, published in El Diario and El Nacional (largest newspaper and online newspaper in Venezuela)
- Implemented Agile methods to lead dev team, implementing Stripe, FB, Plaid, Paypal APIs

Harvard IACS (advised by Dr. Chris Tanner) Summer 2020-22

Machine Learning Research Remote

- Created an armband using EMG muscle sensors and NLP to translate sign language in collaboration with Google Research (Dr. Julia Kreutzer) and Harvard IACS ([ICASSP 2022](#))
- Wrote novel seq2seq models translating ASL to English with a novel dataset of 6,000+ signs

EDUCATION

Stanford University, Stanford, CA 2021-2025

- **School of Engineering**, B.S Mathematics, *Cumulative* GPA: 4.0/4.0
- **Frosh Battalion**, Business Association of Stanford Entrepreneurial Students (BASES)
 - Won \$1,000 Startup Pitch competition with judges from GGVCapital, Hines, Fusion
- **Member**, Stanford Quantum Computing Club, Stanford Men's Squash (Captain), Sigma Nu
- **Honors**: Exceptional Achievement Award (BCSC), Student Advisory Board (THINK program)
- **Relevant Coursework**: Reinforcement Learning, Machine Learning, Web Applications, Deep Learning for Computer Vision, Cryptography, Applied Matrix Theory, Cryptocurrencies and Blockchain Technologies

Brunswick School, Greenwich, CT 2007- 2021

- GPA: 102.9/100 | ACT: 36 | Class Rank: 1 | 4x High Honor Roll | Valedictorian | Ivy Speaker

SKILLS AND INTERESTS

Software: Python (Numpy, Pandas, Tensorflow), Javascript (React Native, React), Java, Excel, SQL

Languages: English (Fluent), Arabic (Fluent - MSA and Egyptian), French (Basic)