Ali Hindy

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WORK EXPERIENCE

Quantitative Research Analyst Intern, Ellington Management Group   *Jun 2022 - Dec 2022*
- Developed CLO risk sensitivity models based on CDX HY using custom logistic equations and corresponding web app used to hedge $50m+ in CLOs for hedge fund with $13.5bn AUM
- 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

Machine Learning Research, Stanford Autonomous Systems Lab   *Nov 2021 - Present*
- 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

Data Science & SWE Intern, Point Pickup Technologies   *Summer 2021*
- 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

Product Lead, Yakera   *Summer 2021-2022*
- 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

Machine Learning Research, Harvard IACS   *Summer 2020-22*
- Created an armband using EMG muscle sensors and NLP to translate sign language with Harvard Professor Dr. Chris Tanner and Google Researcher Dr. Julia Kreutzer (Published: ICASSP 2022)
- Wrote novel seq2seq models translating ASL to English with our 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)
  - Selected as 1 of 250 applicants for Stanford's Premier Entrepreneurship Club
  - Won $1,000 Startup Pitch competition with judges from GGV Capital, Hines, Fusion
- **Member,** Stanford Quantum Computing Association, Stanford Club Squash (Vice President)
- **Honors:** Exceptional Achievement Award (BCSC), Student Advisory Board (THINK program)
- **Relevant Coursework**: Stanford CS231n, CS229, CS224n, MIT 18.01, 18.02, 18.06

Brunswick School, Greenwich, CT   *2007- 2021*
- GPA: 102.9/100 | ACT: 36 | Class Rank: 1 | 4x High Honor Roll | Valedictorian
- **Honors/Awards**: Computer Science Award, Rensselaer Research Award, Arabic Award, Cum Laude Society Inductee, James A. Shields Math Award, Geis Cup, Elected "Ivy" Speaker

EXTRACURRICULARS

Editor-in-Chief, Babel and Arabic Club:
- Ran the magazine that won 3 Gold Medals from the Columbia Scholastic Press Association
- Raised over $15,000 for Syrian Immigrants and sustainable resources in the Arab World

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)