Ishan Jain

510-241-8607 | ishanjain42@gmail.com | linkedin.com/in/ishjai/ | github.com/ishanjainofficial

EDUCATION

University of California, Santa Barbara   Santa Barbara, CA
Computer Science   *Sept. 2022 – June 2025*

WORK EXPERIENCE

Quant Analyst | *Prismatic Capital*   February 2024 – September 2024
- Developed dashboard to monitor trades and assess live trader performance for enhancing trading strategies
- Conducted extensive research and backtesting to design and deploy various trading strategies, including liquidity strategies and funding rate arbitrage
- Engaged in AI-driven strategies to optimize trading performance and capitalize on market opportunities

Software Engineer Intern | *PennyMac Financial Services*   June 2023 - August 2023
- Spearheaded the development of a Canary deployment pipeline for Amazon ECS, implementing AWS App Mesh to enable seamless and low-risk service updates
- Orchestrated fault-tolerant infrastructure using AWS services such as CloudFormation for resource management and Prometheus monitoring for proactive application reliability, scalability, and operational efficiency

AI Research Scientist | *Cedars-Sinai Medical Center*   June 2020 – May 2022
- Worked with physicians to develop an end-to-end deep learning pipeline to diagnose heart failure
- Selected as top 35 abstracts at the American Society of Echocardiography meeting
- Manuscript accepted to one of the largest medical journal (JAMA)

Paid NLP Research Intern | *Stanford Department of Medicine*   June 2020 – December 2020
- Developed an NLP pipeline to understanding the role of diet in the pathophysiology of inflammatory bowel disease
- Harnessed algorithmic approaches to calculating post-operative patient sentiment in IBD treatment

Lead Software Developer | *Department of Veterans Affairs*   February 2020 – July 2021
- Collaborated with a team of healthcare professionals at Google Cloud, Apple Health, and Stanford Medicine to develop and administer a mobile application to prevent post-operative opioid addictions
- Presented demo at the Google Cloud Buildathon, Stanford Cardinal Kit Health workshop, and submitted as a $75,000 grant addendum

CONFERENCES

- **Jain I.** "Interpretable Deep Learning Prediction of 3D Assessment of Cardiac Function" Pacific Symposium on Biocomputing, January 3-7, 2020. Big Island, Hawaii
- **Jain I.** "Systematic quantification of measurement errors in left ventricular tracing and ejection fraction calculation using deep learning" American Society of Echocardiography, June 18-21, 2021. Boston, Massachusetts
- **Jain I.** "Toxicity Provoked by Exposure of Human Lung Cells to Lunar Regolith Simulants" AGU Fall Meeting, December 1-17, 2020. Stony Brook, New York
- **Jain I.** "Applications of Neural Networks for Classifying Images of Deaf Horses" ACM ICIEI, July 26-28, 2020.

PATENTS

- A Novel Approach for Generating Diagnoses using Natural Language Processing Algorithms for Speech Disorders and a Modern Use of Voice Assistant Systems for Stuttering and Rhotacism Therapy
- Leveraging Modern Hardware Tools and Utilizing Deep Learning Methods to Create an Assistance Method for Individuals with Visual Disorders
- Using Wearable Technology and Utilizing Deep Learning Methods to Conveniently Assist Visually Disabled Individuals with Sight

SKILLS AND RESEARCH HONORS

- Technical Skills: Python, Go, Java, JavaScript, GraphQL, C++, Swift, Frameworks React, Node.js, Express, gRPC, Kubernetes, DevOps, SQL, Prometheus, Git, Docker, AWS, Keras, TensorFlow, Pandas, CUDA
- Research Honors: Regeneron International Science and Engineering Fair (ISEF) Finalist, ACSF Grand Prize Winner, JSHS Top 12 Researchers, BioGeneius Global Healthcare Challenge Finalist, Conrad Challenge Global Summit Top 5, USACO Gold, 2nd Place Congressional App Challenge