

Education

Massachusetts Institute of Technology, *Cambridge, MA*

GPA: 4.6 / 5.0

B.S. in Computer Science and Molecular Biology

Coursework: Advanced Algs, CompBio Algs, Machine Learning, Software Construction, Auto Speech Rec, Mobile Sensor Computing, Hallmarks of Cancer, Immunology, BioCircuit Engr, Classical+Climate+BioEthics

Technologies: python, bash, SQL, yaml, kubernetes, terraform, redis, FastAPI, argoCD, snowflake, selenium, elastic+datadog+new relic, AWS lambda+kinesis+athena, GCP functions+datastream+bigquery, kafka, ask me!

Work Experience

PrizePicks, *Remote*

January 2023 - Present

Staff Machine Learning Engineer with Dae Kang

- ❖ First hire on fastest growing dev team achieved 25x company valuation over 2.5 years
- ❖ Developed pricing model and served to users via FastAPI handling over 500k TPM <15ms 99%
- ❖ Initialized odds generation enabling alternate markets which generated over \$5 billion in handle
- ❖ Initialized auto-trading service for automated board management enabling in-game markets
- ❖ Generated tailored bet recommendations using RAG on top of LangChain+ Pinecone + OpenAI
- ❖ Led ML Ops monitoring using DataDog, Elastic, New Relic, then Prometheus-Grafana with incident.io

Draftkings, *Remote*

October 2021 - January 2023

Senior Data Science Engineer with Greg Von Pless and Fred Stakem

- ❖ Developed k8s Deployments consuming kafka streams for pricing derivative markets with xgboost
- ❖ Created build tool and tutorial workshop for CI/CD of python apps from dev to production

inference, *Cambridge, MA + Remote*

September 2019 - March 2021

Biomedical Data Scientist with Dr. Tyler Wagner

- ❖ Deployed APIs for rapid epidemiological studies in Mayo Clinic's unstructured electronic health records
- ❖ Trained case-specific BERT models to extract novel disease progressions, treatments, populations, etc
- ❖ Trained models for lesion segmentation on radiology images + arrhythmia detection on ECG waveforms
- ❖ Harmonized longitudinal clinical data for patient-matching model to create in silico control cohorts

Koch Institute for Integrative Cancer Research, *Cambridge, MA*

August 2018 - August 2019

Computational Biology Researcher with Dr. Phillip Sharp

- ❖ Studied differential response of PDAC to immunotherapy using mRNA-PROseq data
- ❖ Created pipelines for processing and graphing experimental output alongside TCGA+ICGC+GEO data
- ❖ Presented findings biweekly in floor lab meetings and culminated at Dana Farber

Aptiv, *Agoura Hills, CA + Boston, MA*

June 2018 - January 2019

Deep Learning Developer for Perception with Alejandro Olivares and Izzat Izzat

- ❖ Developed an annotation tool for generating linked bounding boxes in 2D (opencv) and 3D space (vtk)
- ❖ Trained and evaluated tensorflow/pytorch object detection models using only lidar data

Activities

Volleyball, Middle Blocker and Youth Coach

2012 - Present

- ❖ Playing for Boston Bounce Volleyball Club and coaching boys beach volleyball with Smash Beach VBC
- ❖ 4-year starting middle and senior captain on MIT Men's Varsity Team, DIII All-American
- ❖ Currently ranked in top 100 mens players of USA Beach Volleyball