JERRY PAN

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EDUCATION

University of California, Berkeley Aug 2020 - June 2024
B.A Computer Science & Statistics (Dean's List for all semesters) Cumulative GPA: 3.95
Relevant Coursework: Multivariable Calculus, Linear Algebra & Differential Equations, Functional Programming, Data Structures & Algorithm, Computer Architecture, Discrete Mathematics and Probability Theory, Data Science, Advanced Probability Theory, Efficient Algorithms and Intractable Problems, Database Systems, DeepLearning.AI

INTERNSHIP & RESEARCH EXPERIENCE

UC Berkeley RISELab Berkeley, CA
Undergraduate Researcher *Oct 2021- Present*

· Built Large Language Model inference benchmark for GPT2, Transformer-XL, XLNet in PyTorch
· Came up and Implemented various cache mechanism to speed up model inference with only slight increase in Memory Usage.

Sophon Tech - HFI.one & HYFI.pro Beijing, China
Software Engineering Intern *May 2021- July 2021*

· Deployed auto-compounding algorithm and value-locking in smart contracts in Solidity.
· Fixed the front-end annual percentage rate bouncing by designing a delayed time-weighted algorithm for profit calculation.

University of Cambridge - Behavioral and Clinical Neuroscience Institute Cambridge, UK
Visiting student, undergraduate researcher *Dec 2020 - May 2021*

· Trained Hidden Markov Model to segment multivariate time series into states that are characterised by their unique quasi-stationary spectral properties in the context fMRI and EEG.
· Statistically inferred the consciousness state by processing experimental neuroscience data, including fMRI and EEG.

Stanford University Biology Department - Fraser Lab Stanford, CA
Research Intern (Genomics Research Internship Program at Stanford) *July 2019 - Aug 2019*

· Conducted advanced statistical analysis methods on 56 metagenomics bacterial colony and illustrated the statistical significance of experimental results and trends with visualization tools.
· Built a pipeline in Nextflow to connect individual command-line genome assay modules, including Glimmer 3, Sickle 1, and Bowtie 2, to effectively parallelize computation on clusters.

PROJECTS

Full-stack NFT Mystery Box Game Platform (PyTorch, React, Figma, Solidity)
Backend Engineer and Product Manager *July 2021- Present*

· Web-crawled the source photos, applied the pre-trained CycleGAN model to fuse the generate background from Cyberpunk background and algorithmically generate the product image.
· Took the lead to polish MVP to build on different chains while adapting to different APIs.
· Built on Rarible Protocol; NFT Payment Solutions; A Scalable NFT Art Project; Gaming & NFTs
· **1st Prize** in NFT Vision Hackathon As the Best Scalable NFT Art Project

TECHNICAL STRENGTHS

Languages Python, Java, R, MatLab, Unix/Linux, SQL, HTML/CSS/JavaScript
Technologies Git, Node.js, React.js, Express, MongoDB, Redis, Django, PyTorch

ADDITIONAL INFORMATION

IEEE UC Berkeley Member, Berkeley UPE Honor Society

BCAIA Scholarship - awarded $23750 for the 2020-2021 academic year

Interests & Hobbies: YouTuber, Workout, Half-Marathon, Swimming, Chess, Jazz drum, Investment