

Justin He

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EDUCATION

University of California, Los Angeles (UCLA)

Sep. 2020 – Mar. 2024

B.S. in Computer Science, B.S. in Applied Mathematics

Los Angeles, CA

- GPA: 4.0/4.0; *summa cum laude*; Phi Beta Kappa
- Activities: Grader for Programming Languages, Databases; Leadership for Upsilon Pi Epsilon

EXPERIENCE

Software Engineer

Apr. 2024 – Present

Meta

New York, NY

- Facebook Scam & Trust; Lead for ML and ML infrastructure for scam detection on FB Dating Integrity
- Own E2E development and training of scam detection models, driving collaboration across Eng, DS, and PMs to research scam trends and develop new features. Reduced scam view prevalence by 70% with model improvements
- Designed and re-built model serving infrastructure processing 150M+ users daily to leverage caching, batching, and rate limiting. Reduced direct inference volume by 95% and saved \$200k/yr in compute costs
- Spearheaded development of major user-facing trust feature. Coordinated efforts across 18 cross-functional partners. Launched with 20% adoption rate in first month, with project spawning a company-wide trust initiative
- Led cross-team collaboration with 12 engineers to design and execute multi-half roadmap for FB-wide integrity infrastructure unification, with the goal of improved reliability and maintainability across all FB integrity systems

Software Engineer Intern

Jun. 2023 – Aug. 2023

Citadel Securities

New York, NY

- Trading Ecosystem, focused on optimizing trading infrastructure performance
- Built services to trace executions across order infrastructure for error detection & correction, reducing error investigation time from hours to seconds
- Wrote internal library for streaming Kafka messages to q/kdb+, improving data throughput by 1.5x
- Developed infrastructure to simulate loads of 100k+ orders for trade booking system to stress test and benchmark latency and reliability

Software Engineer Intern

Jun. 2022 – Sep. 2022

Meta

Menlo Park, CA

- Instagram Demand & Efficiency Management, focused on improving Instagram's backend power efficiency
- Led cross-team project to develop a system to measure engagement change per kW used of potential new features
- Built dashboard to manage power consumption across 25 Instagram services and 500k+ servers
- Developed algorithm to triage power regressions to launches by correlating launch data with power time series data

Software Engineer Intern

Jun. 2021 – Sep. 2021

Fwaygo

Los Angeles, CA

- Developed microservices in Go for user/song data processing, report handling, and server-to-client messaging
- Utilized RabbitMQ to facilitate interservice pub/sub communication between Docker container clusters on GKE
- Created GraphQL APIs for user/song queries & mutations and integrated them into a React Native frontend

RESEARCH

GNN Integration to Knowledge Graph for Nephrology QA System (Paper)

2022

- Collaborated with two UCLA PhD students to train novel QA models for joint reasoning across language models and knowledge graph-enhanced GNNs to answer nephrology questions
- Tuned GreaseLM + QA-GNN models via hyperparameters and knowledge graph configurations; Achieved 37.2% accuracy on nephrology QA tasks (SOTA at the time)
- Applied mention detection, entity linking, and relation extraction using spaCy to generate a specialized knowledge graph and annotated QA dataset
- Extracted and cleaned text data from 563 textbook chapters and 814 research articles about nephrology

TECHNICAL SKILLS

Languages: Python, C++, SQL, PHP, JavaScript, Go, Java, Bash

Libraries: PyTorch, NumPy, Pandas, Matplotlib, React, Node, Express, GraphQL

Technologies: Git, Docker, Google Cloud, AWS, Firebase, MySQL, PostgreSQL