

# Justin He

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## EDUCATION

<b>University of California, Los Angeles (UCLA)</b> <i>B.S. in Computer Science, B.S. in Applied Mathematics</i>	Sep. 2020 – Mar. 2024 <i>Los Angeles, CA</i>
<ul style="list-style-type: none"><li>GPA: 4.0/4.0; <i>summa cum laude</i>; Phi Beta Kappa</li><li>Activities: Grader for Programming Languages, Databases; Leadership for Upsilon Pi Epsilon</li></ul>	

## EXPERIENCE

<b>Software Engineer</b> <i>Meta</i>	Apr. 2024 – Present <i>New York, NY</i>
<ul style="list-style-type: none"><li>Facebook Scam &amp; Trust, focused on detecting and preventing fraudulent activity on Facebook</li></ul>	
<b>Software Engineer Intern</b> <i>Citadel Securities</i>	Jun. 2023 – Aug. 2023 <i>New York, NY</i>
<ul style="list-style-type: none"><li>Trading Ecosystem, focused on optimizing trading infrastructure performance</li><li>Built services to trace executions across order infrastructure for error detection &amp; correction, reducing error investigation time from O(hours) to O(seconds)</li><li>Wrote internal library for streaming Kafka messages to q/kdb+, improving data throughput by 1.5x</li><li>Developed infrastructure to simulate loads of 100k+ orders for trade booking system to stress test and benchmark latency and reliability</li></ul>	
<b>Software Engineer Intern</b> <i>Meta</i>	Jun. 2022 – Sep. 2022 <i>Menlo Park, CA</i>
<ul style="list-style-type: none"><li>Under Instagram Demand &amp; Efficiency Management, focused on improving Instagram's backend power efficiency</li><li>Led cross-team project to develop a system to measure engagement change per kW used of potential new features</li><li>Built dashboard to manage power consumption across 25 Instagram services and 500k+ servers</li><li>Developed algorithm to triage power regressions to launches by correlating launch data with power time series data</li></ul>	
<b>Software Engineer Intern</b> <i>Fwaygo</i>	Jun. 2021 – Sep. 2021 <i>Los Angeles, CA</i>
<ul style="list-style-type: none"><li>Developed microservices in Go for user/song data processing, report handling, and server-to-client messaging</li><li>Utilized RabbitMQ to facilitate interservice pub/sub communication between Docker container clusters on GKE</li><li>Created GraphQL APIs for user/song queries &amp; mutations and integrated them into a React Native frontend</li></ul>	

## PROJECTS

<b>GNN Integration to Knowledge Graph for Nephrology QA System (Paper)</b>	2022
<ul style="list-style-type: none"><li>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</li><li>Tuned GreaseLM + QA-GNN models via hyperparameters and knowledge graph configurations; Achieved 37.2% accuracy on nephrology QA tasks (SOTA at the time)</li><li>Applied mention detection, entity linking, and relation extraction using spaCy to generate a specialized knowledge graph and annotated QA dataset</li><li>Extracted and cleaned text data from 563 textbook chapters and 814 research articles about nephrology</li></ul>	

## TECHNICAL SKILLS

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

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

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