

# Justin He

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## EDUCATION

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### University of California, Los Angeles (UCLA)

Sep. 2020 – Jun. 2023

*Bachelor of Science in Computer Science, GPA 4.0*

*Los Angeles, CA*

- Coursework: Operating Systems, Databases, Machine Learning, Natural Language Processing, Artificial Intelligence, Computer Organization, Algorithms & Complexity, Probability, Discrete Structures, Linear Algebra
- Activities: Upsilon Pi Epsilon (UPE) - Corporate Chair, Creative Labs - Project Developer, Association for Computing Machinery (ACM)

## EXPERIENCE

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### Software Engineer Intern

Jun. 2022 – Sep. 2022

*Meta*

*Menlo Park, CA*

- Under Instagram Demand & Efficiency Management, focused on optimizing Instagram's backend efficiency
- Developed internal tools for aggregating feature launch impacts and promoting connectivity between launches and regression tasks
- Created heuristic for correlating sustained computing performance and resource changes with launches
- Expanded data collection rules to strengthen data robustness and completeness for products affected by launches

### 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 the React Native frontend

### Software Developer

Apr. 2021 – Jun. 2021

*NurLabs*

*Los Angeles, CA*

- Collaborated with UCLA researchers to develop a script for batch extracting spectroscopy data from .WDF files to train a machine learning lung cancer detection model
- Improved data extraction time from 2 minutes per file to less than one second overall
- Created a server and API for receiving and storing client information using PostgreSQL, Node, and Express
- Practiced agile scrum methodology through daily stand-ups with founders from UCLA Anderson

### Full Stack Developer

Sep. 2020 – Apr. 2021

*WeChews*

*Los Angeles, CA*

- Collaborated with a team of 10 to build a React Native app that matches users with restaurants to eat at
- Implemented push notification service with Google Cloud Messaging and image uploading with Amazon S3
- Developed a REST API for notifications using PostgreSQL, Node, and Express

## PROJECTS

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### Roblox Reviews | *Python, React, TypeScript, Google Cloud Platform, MySQL*

Jun. 2020 – Present

- Developed a full-stack web app using React offering game review services for 3,000+ users
- Designed APIs for accounts, reviews, and full text game searching using Python, Cloud Functions, and MySQL
- Utilized BeautifulSoup to scrape Roblox pages for game metadata to store in a database
- Published an extension to Chrome store adding a rating interface to roblox.com with Roblox Reviews statistics

### Note Global | *React, JavaScript, Firebase, Realtime Database*

Apr. 2021

- Led a team of 4 students to create a React app for college students to find and share course notes
- Implemented a PDF viewer interface in React and uploading utilizing Realtime Database and encoded PDFs
- Performed a cost-benefit analysis of various data stores and storage methods for a serverless application
- Guided team members using experience with React and JavaScript to overcome technological challenges

## TECHNICAL SKILLS

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

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

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