

# Justin He

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## EDUCATION

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

Expected June 2023

*Bachelor of Science in Computer Science*

- **GPA:** 4.00/4.00
- **Coursework:** Data Structures, Algorithms, Computer Organization, Software Construction, Discrete Math, Linear Algebra, Differential Equations, Multivariable Calculus
- **Activities:** Creative Labs, ACM (AI & Machine Learning)

## PROJECTS

### Roblox Reviews ([www.roblox.reviews](http://www.roblox.reviews))

June 2020 – Present

- Designed and developed a full stack web app offering game review services for 1,000+ users
- Created with React, Python with SQLAlchemy (database transactions) and Beautiful Soup (web scraping), and MySQL on a Firebase + GCP serverless architecture
- Engineered a complex REST API for database interactions such as indexed game searches, ordered review querying, review submission, liking/reporting, and account creation/deletion
- Published an extension on Chrome store with over 1,000 downloads featuring an interactive rating interface for roblox.com with statistics from Roblox Reviews' crowd-sourced database

### WeChews

Sept. 2020 – Present

- Collaborated with a team of 10 to build a mobile app for streamlining matching 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 with Express for Node.js interfaced with PostgreSQL via Sequelize
- Increased restaurant selection algorithm speed by 300% by architecting improved data structures

### CassavaML Classifier

Jan. 2021 – Apr. 2021

- Led a team of 3 to build a machine learning model for cassava leaf disease classification from images
- Achieved 85%+ accuracy on a set of over 20,000 images from Kaggle
- Integrated techniques such as transfer learning, weight decay, and dropout using PyTorch
- Organized team workflow by overseeing a training task sheet and assigning parameter configurations

### Note Global

Apr. 2021

- Led a team of 4 to make an online platform for students to find and share notes and connect during the pandemic
- Implemented a PDF user interface in React with uploading to Realtime Database via Base64 data encoding
- 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 various technological challenges

## EXPERIENCES

### Mock Trial

Aug. 2018 – June 2020

*President, Attorney Captain*

- Spearheaded school's Mock Trial program by leading extensive outreach efforts to recruit 3 professional attorney coaches and 30 students
- Organized fundraisers with local businesses and raised \$1,000 for activities to promote student interest in law
- Created educational material and a training curriculum with attorney coaches for Mock Trial competitions

### Students for Success

Aug. 2017 – June 2020

*Lead Tutor, Volunteer*

- Volunteered 300 hours and tutored over 25 students in STEM topics for a school tutoring program
- Collaborated with program coordinator and teachers to promote tutoring by making posters and announcements
- Facilitated program sessions and managed physical resources at the school tutoring center

## SKILLS

- **Programming Languages:** Java, Python, C++, JavaScript, TypeScript, SQL, HTML, CSS
- **Technologies:** React, Node.js, Express.js, Git, Google Cloud Platform, Firebase, PyTorch, MySQL, PostgreSQL
- **Languages:** English (Native), Mandarin Chinese (Native speaker), Spanish (Intermediate)