Justin He

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EDUCATION

University of California, Los Angeles (UCLA), *Los Angeles, CA* **Expected June 2023**

Bachelor of Science in Computer Science

- GPA: 4.00/4.00
- Activities: Creative Labs, ACM (AI & Machine Learning)

Fremont High School, *Sunnyvale, CA*

- GPA: 4.35/4.00 (Valedictorian); Concurrent Enrollment at Foothill, De Anza College
- Spearheaded Mock Trial program by raising $1,000 and recruiting 30 students to promote interest in law
- Volunteered 300 hours as a tutor and facilitated school tutoring program serving over 50 students

PROJECTS

Roblox Reviews (www.roblox.reviews) **June 2020 – Present**

Full Stack Developer

- Designed and developed a full stack web app offering game review services for 1,000+ users
- Developed with React, Python and MySQL, utilizing a serverless architecture with Firebase and GCP
- Optimized through dynamic page generation, transactional database updating, indexed searching and Next.js for SEO
- Published an extension on Chrome store with an interactive rating interface for roblox.com with statistics from Roblox Reviews' crowd-sourced database

Wechews **September 2020 – Present**

Back-end Developer

- Collaborated with a team of 10 to create Wechews, an app for efficiently matching users with restaurants
- Implemented real-time notification service with Google Cloud Messaging and profile image uploading with Amazon S3
- Built push-notification and image REST API with Express for a Node.js and PostgreSQL back-end
- Increased restaurant selection algorithm speed by 80% by engineering improved data structures

Machine Learning Cassava Leaf Disease Classifier **January 2021 – April 2021**

Engineer

- In a team of 3, built 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 creating training task sheet and assigning parameter configurations

OTHER

- **Programming Languages:** Java, Python, C++, JavaScript, TypeScript, SQL, HTML, CSS
- **Technologies:** React, Node.js, Express.js, PyTorch, MySQL, PostgreSQL, Firebase, Google Cloud Platform
- **Skills:** Web Development, Database Design, Object Oriented Programming