

# Jiong Wang

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## EDUCATION

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### University of Southern California

Master of Science in Computer Science, GPA: 3.9/4.0

Los Angeles, CA

Expected Graduation: May 2026

### Georgia Institute of Technology

Master of Science in Biology

Atlanta, GA

Aug. 2019 – Dec. 2021

### Shandong University

Bachelor of Science in Biological Sciences

Weihai, China

Sep. 2015 – Jun. 2019

## EXPERIENCE

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### Student Developer

Interaction Lab, University of Southern California

Sep. 2024 – present

Los Angeles, CA

- Led the development of a candidate portal, enabling participants to log in, engage in study sessions, and resume activities seamlessly. The portal features include pre- and post-session surveys, session video recording, human-in-screen detection, and IoT interactions
- Implemented a full-stack architecture, creating a responsive and accessible frontend with **Next.js** and a robust backend with **Node.js**, while integrating secure user authentication to safeguard participant data
- Configured scalable storage solutions, leveraging **AWS S3** for video data and **DynamoDB** for survey results, ensuring reliable and efficient data handling
- Deployed the portal using **AWS Amplify**, enabling smooth hosting, scalability, and rapid updates to accommodate growing user needs

### Software Engineer Intern

Moo Housing Inc.

May 2024 – Aug. 2024

Los Angeles, CA

- Collaborated with a team to create a new, responsive website for property listings using **TypeScript**, **Tailwind CSS**, **Headless UI**, and **Next.js**, delivering a seamless user experience
- Integrated **Contentful** as a headless CMS, streamlining data fetching and management, improving content update efficiency and enhancing team workflows
- Designed and implemented **RESTful APIs** for on-demand content revalidation, user data management, and property listings, optimized server performance and ensured accurate content delivery
- Enhanced user interaction through a map feature built with the **Google Maps API**, incorporating customized markers and clusters for improved visualization and usability
- Participated in **Agile** processes to enhance collaboration and improve project efficiency

## SELECTED PROJECTS

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### PawSpot | React, Node.js, Express.js, MongoDB

- Developed a full-stack web application for sharing pet-friendly locations
- Integrated data layer with **MongoDB**, leveraged read-write separation and data-sharing technologies to deliver high-performance user registration, login, sharing, and commenting functionalities, supporting 2,000 API operations per second
- Crafted **RESTful APIs** with **Express.js** to ensure efficient and seamless communication between the frontend and backend systems.
- Implemented secure user authentication and authorization with **JWT** to deliver personalized and safe user experiences while ensuring data privacy.
- Deployed the application on **Heroku**, ensuring scalability and high availability

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Java, Python, SQL, C/C++, HTML/CSS, Shell

**Databases:** MongoDB, MySQL, PostgreSQL, Redis

**Libraries/Frameworks:** React, Next.js, Node.js, Express.js, Flask, Django, Tailwind CSS, HeadlessUI, Bootstrap, SpringBoot, AWS

**Technologies:** JVM, Linux

**Tools:** Git, Heroku, Vercel, GraphQL