

Justin Kong

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Education

Vanderbilt University

Majors: Medicine, Health, and Society & Computer Science | Data Science Minor
Relevant Coursework: CS 2201: Discrete Structures, CS 2201: Data Structure & Algorithms
Honors: Dean's List, National Merit Finalist
Student Involvement: Change Plus Plus, VUcept, Product Space, Armada Ultimate Frisbee

May 2027
GPA: 3.925

Skills

- Java (Spring Boot, JUnit)
- Python (PyTorch, Pandas, Selenium)
- R (ggplot2, tidyverse, haven)
- SQL (MySQL, SQLite3)
- NoSQL (MongoDB)
- Web Development (HTML/CSS/JS, Flask, Figma)
- JavaScript (Node.js, Express, React)
- Git
- Unity (C#)
- Adobe Creative Cloud (Premiere Pro, Photoshop, After Effects)

Experience

Wallace Lab: Brain-Inspired AI

Nashville, TN

Research Assistant

Aug. 2024 - Present

- Conducting comparative research on language evolution in large language models and humans, analyzing developmental linguistics across different ages and sensory modalities using representational similarity analysis and participant-based study.
- Utilizing MEG data to investigate neural alignment of AI models, producing accurate and precise representational dissimilarity matrices.
- Developing a Unity virtual environment to evaluate human perception of simple stories through various sensory modalities.

Vanderbilt Computer Science Department

Nashville, TN

Social Media Assistant

Aug. 2024 - Present

- Oversee Twitter, LinkedIn, and Instagram accounts with 1000+ total followers for Vanderbilt University's computer science department, increasing engagement by over 400% and tailoring content for computer science students to grow the department's online presence.
- Spearheaded the launch of the department's Instagram page, creating and customizing content tailored to computer science students' interests based on analysis of social media trends and data.
- Collaborating directly with computer science faculty to highlight significant accomplishments across 10+ other Vanderbilt engineering programs enhancing visibility and cross-departmental recognition.

VUcept

Nashville, TN

Student Orientation Leader

Mar. 2024 - Oct. 2024

- Co-led a 6-week orientation program for a cohort of 18 first-year students alongside the senior director of Vanderbilt Immersion, facilitating their transition to university life and offering guidance throughout the process.
- Facilitated group discussion and organized social events to maintain retention, offering personalized one-on-one support to each student.

Wond'ry Social Innovation

Nashville, TN

Social Innovation Intern

Jan. 2024 – May 2024

- Collaborated with a team of 5 in a 10-week program to develop a standardized case management form, partnering with Gift of Mary and Room In The Inn, an organization that supports over 200 individuals experiencing homelessness, to design effective workflows.
- Interviewed and conducted user reviews from 3 industry professionals, applying human-centered design methodologies.
 - Spearheaded the technical implementation of the case management form utilizing modern web development libraries and frameworks.

Projects

findmyAP | (Python, Selenium, SQL, Flask, JS)

- Developed a full-stack web application that automates the search for College Board AP credit policies at 2000+ institutions using a Python web-scraping script, potentially saving students thousands in tuition costs.
- Conducted a thorough user review, identifying and establishing an active user population of 100+ high school students.
- Presented project at Spring Valley High School's Discovery Senior Magnet night to 50+ parents of students.

Social Changemakers Case Management Form | (HTML, CSS, JS)

- Designed a case management form using Figma to account for efficiency and simplicity in effective case management practices.
- Produced a mock website mock website with HTML, Bootstrap, and JavaScript to enhance engagement and review processes.

Hyundai Oriental Grocery Database Management | (Python, MongoDB)

- Implemented an inventory database for a local Asian grocery store containing SKU and sale metric data for 2500+ item.
- Created a dynamic management system, allowing the owner to make data-informed decisions on inventory procurement valued \$15,000+.

Patty Wagon Voyage | (MERN)

- Created a full-stack MERN geography trivia-based game based on the SpongeBob SquarePants Movie.
- Built a RESTful API using Node.js and Express for handling game logic, user session data, and leaderboard data stored in MongoDB.
- Implemented a responsive, interactive React frontend utilizing state management for a seamless user experience.