

Jay Khemchandani

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EDUCATION

Stanford University

Stanford, California

B.S. in Computer Science

Sept 2023 - Expected June 2027

- o **Artificial Intelligence Track**
- o **Related Coursework:** Machine Learning, Artificial Intelligence, Statistics & Applications, Data Structures & Algorithms, Object-Oriented Programming

EXPERIENCE

Shanna Khan, Principal of NFL Jacksonville Jaguars and other companies

Orlando, Florida

AI Developer/Intern

June 2024 – Present

- Designed and implemented a full-stack AI-powered design tool, specializing in high-end designs for sports and hospitality venues. Fine Tuned an open-source generative image model and built a secure, scalable web application hosted on AWS. Designed separate user profiles with dedicated image memory storage for seamless multi-user integration.
- Implemented backend features for parameter storage and enhanced capability for image modification.

The Bianchi Lab, Miller School of Medicine, University of Miami

Miami, Florida

Data Manager for Neuroscience Lab

July 2021 – Sept 2023

- Created database to match DNA lesions with correlated biological information.
- Work under the mentorship of Dr. Bianchi (The Bianchi Lab) in scientific investigation into the role of plasma membrane channels and proteins on glial and neuronal function.

The Summer Science Program (SSP) - Genomics

West Lafayette, Indiana

Bioinformatics Researcher

June 2022 – July 2022

- Developed and implemented bioinformatics pipelines to analyze genomic data within the frame of antibiotic resistance using tools such as Galaxy and the Integrated Genome Browser (IGB).
- Used statistics to highlight mutated DNA segments which could account for phenotypic changes in bacteria.

PROJECTS

Baymax - Grand Prize Winner at TreeHacks 2024

Stanford, California

Lead Spokesperson and API Framework Developer

Feb 2024

- TreeHacks is one of the largest and most prestigious collegiate hackathons in the world. It attracts over 1100 'hackers' that apply and fly in from all over the globe.
- Created an AI-powered robot arm that is a personalized solution to restore physically impaired and elderly individuals' ability to interact with their environment. Using custom inverse kinematics software to control the arm, Baymax uses Natural Language Processing and a vision based Convolutional Neural Network to interact with its user.
- Won the \$10,000 grand prize, as well as a sponsor-funded trip to Japan.

1517 Fund Winner - Mosaic AI

Stanford, California

Solo Developer

Feb 2024

- In the span of 2.5 hours, I wrote computer vision scripts which use OpenCV to analyze wallpapers. I trained my own visual transformer model as well to verify the contents.
- Using the average color and central themes from your pictures, Mosaic makes you a personal wallpaper.

SKILLS

- **Programming Languages:** Python, JavaScript, HTML, CSS, SQL, MATLAB, C++, C, R
- **Web Development:** Node.js, Flask, mySQL, React
- **Machine Learning:** Pytorch, Scikit-Learn, Pandas, Numpy
- **Tools:** AWS, Amazon Lightsail, DBeaver, Postman, MobaXterm, Fusion 360, Git