

PANKAJ CHOHAN

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<https://github.com/PankajChohan9820>

EDUCATION

San Diego State University
Master's, Computer Science

August 2021 - May 2023
GPA: 3.4

University of Mumbai
Bachelor's, Computer Science

August 2015 - May 2019
GPA: 3.57

PROFESSIONAL EXPERIENCE

San Diego State University
Research Assistant

San Diego, CA, USA
August 2021 - Present

- Built an automated data collection system for second hand bags by scraping and storing data on S3 using a daily Cron Job.
- Developed a microservices of race detection model, enabling real-time identification of individuals' ethnicity.
- Mentored a team of 4 junior members in data scraping, analysis, and clean code practices, including GitHub version control.

NBCUniversal

Software Engineer Intern

Remote
September 2022 - December 2022

- Developed an API for retrieval and filtering of essential movie award data, which led to a 30% rise in user satisfaction.
- Innovated a data pipeline that ingests 5TB of movie award information, reducing data processing time by 50%.

ASML

Full Stack Developer Intern

San Diego, CA, USA
May 2022 - August 2022

- Created components, forms, and Protected routes for TACOPS users, ensuring cross-platform compatibility and accessibility.
- Integrated backend for a responsive admin dashboard with Dark/Light theme, resulting in a 40% faster page load.
- Developed and executed 30 Snapshot tests and 15 Component tests using Jest with mock objects.
- Engineered and secured RESTful API endpoints to seamlessly send real-time machine data with minimal latency.

Kan Innovations Pvt. Ltd.

Software Engineer

Mumbai, Maharashtra, India
December 2019 - July 2021

- Built real-time interactive data visualizations using Plotly and Matplotlib for foot test results, improving clinical decisions.
- Established a CI/CD pipeline to deploy Docker applications across 20+ servers, achieving a 60% workload reduction.
- Executed seamless migration of a 1-million patient records database from a multiple local server to a cloud server.
- Created a report page utilizing foot data, showcasing over 15+ objective metrics for addressing biomechanical anomalies.
- Constructed YOLO model for foot detection in the Healthcare system, improving recognition accuracy by 50%.

Kan Innovations

Software Engineer Intern

Mumbai, Maharashtra, India
September 2019 - November 2019

- Generated a data cleaning algorithm to remove noise from foot data, resulting in 30% faster runtime.
- Built Restful web services to implement patient registration and test information, resulting in performance increase by 20%.
- Devised database models and executed weekly data backups, resulting in improved data security and management.

PROJECTS & OUTSIDE EXPERIENCE

Tetris Game

San Diego
September 2023 - October 2023

- Developed a feature-rich ReactJS Tetris game with custom hooks, an intuitive UI, real-time block previews, and dynamic scoring.
- Implemented seamless restart functionality for the ReactJS Tetris game

Tweet Car Trends

San Diego, CA, USA
January 2023 - March 2023

- Analyzed tweets from top 20 car companies using NLP: sentiment analysis, lemmatization.
- Utilized Plotly visualizations to examine into sales patterns during pride months, and their influence on car sales.

SKILLS & INTERESTS

Skills: Node.js, AWS, Apache Kafka, Data Science, Data Structures & Algorithms, Django, Docker, Figma, Flask, JavaScript, Jenkins, Jest, Jupyter, Git, HTML/CSS, Java, Linux/Unix, R, MongoDB, MySQL, NumPy, Pandas, Postgres, Pytorch, React.js, REST APIs, Selenium, SQL, Natural Language Processing (NLP), Kubernetes, Python, TypeScript, Web Development, Software Testing