github.com/vns9
linkedin.com/in/venkat-narayana

Venkat Narayana

+1 (213) 373-0020
vsnaraya@usc.edu

Education

Los Angeles, CA **University of Southern California** **Fall'22 – Spring'24**
- *Master of Science in Computer Science* (In first semester) - GPA: **NA/4**
- Coursework: Analysis of Algorithms

Varanasi, India **Indian Institute of Technology (BHU)** **Fall'17 – Spring'21**
- *Bachelor of Technology in Computer Science with Honors in Artificial Intelligence* - GPA: **9.1/10**

Work Experience

Software Engineer - 1 **JPMorgan Chase & Co.** **Jun 2021 – Aug 2022**
- Designed and built an application that filters expiring futures contracts and allows the Portfolio manager to roll them.
- Single-handedly coded a latency and app health monitor that does automated checks and alerts the team as per incident severity. This tool saves approximately 100 hours of manual work in a year.
- Implemented an entire scalable Blazemeter test suite for a new Orders management workflow that discovered critical latency and payload size discrepancies.
- On rotational production support, identified 6 major production issues, did root cause and impact analysis based on Datadog traces, Splunk logs and Intellij debugger.
- Tech stack: Java, Spring Boot, Python, React, JMeter, Apache Groovy, Blazemeter, Datadog, Splunk

Software Engineer - Intern **JPMorgan Chase & Co.** **Summer 2020**
- Spearheaded a team of 5 in building Indian Sign language translator app under Tech for Social Good initiative.
- Captured facial and hand gestures through web-cam and processed them using MediaPipe to interpret the signing by leveraging pattern recognition models having an LSTM+AutoEncoder architecture.
- Tech stack: Django, MediaPipe, JavaScript, Bootstrap

Software Engineer - Intern **4iq India** **Summer 2018**
- Designed and coded the frontend and backend for loans-management system and onboarded more than 200 clients from existing Funds management software.
- Tech stack: Django, Bootstrap, SQLite, HTML/CSS

Technical Experience

Projects
- **Hash-based hybrid recommender system** (Code) Proposed and implemented an end-to-end deep learning-based Hybrid recommender system that utilizes reviews to generate hash codes for performing rating prediction and ranking tasks. Python, TensorFlow, SLURM (Supercomputer job scheduler)
- **Cartoon generation using Generative Adversarial Network** (Code) Created a deep learning GAN model to generate cartoons from real-life portraits. Leveraged a Genetic algorithm-based training strategy for deciding the hyperparameters. PyTorch, OpenCV, Flask
- **COVID-19 Cases Tracker** (Demo) Developed a Coronavirus tracker using crowdsourced RESTful APIs to produce visualizations of COVID cases that show country-wise statistics. React, JavaScript
- **Semantic search engine** (Code) A document search engine which retrieves relevant text documents leveraging topic models extracted from the corpus using Latent Semantic Indexing. Django, Gensim, NLTK, Scikit

Skills

- Java, C++, Python, JavaScript(Familiar), Spring Boot, Django, React(Familiar), MySQL, Git, HTML/CSS

Awards/Mentorship/Hackathons

- Received the KVPY Fellowship award - 2016 from the *Indian Institute of Science, Bangalore*.
- Secured All India Rank 793 in IIT (JEE) Advanced 2017 out of 1 million applicants.
- Hackathons: (mentored) JPMorgan Code For Good 2020, (participated) Microsoft Code.Fun.Do 2019, Digital Ocean Hacktoberfest 2019/20/21