

# Jenish Mukeshbhai Karasariya

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## EDUCATION

### Master of Science, Computer Science

Aug 2022-May 2024

#### University of Southern California

GPA – 3.6/4.0

Courses: Analysis of Algorithms, Data Structures, Artificial Intelligence, Web Technologies, Natural Language Processing, Security Systems, Information Retrieval and Web Search Engines

### Bachelor of Technology, Computer Engineering

Jul 2018-Jun 2022

#### Charotar University of Science and Technology

GPA – 3.84/4.0

Courses: Data Structures and Algorithms, Object Oriented Programming, Operating System, Database Management, Computer Networks, Software Engineering, Machine Learning, Cloud Computing

## SKILLS

**Languages:** Java, Python, C, C++, SQL, JavaScript, HTML, CSS, Swift, TypeScript, PHP, AJAX

**Frameworks:** React.js, AngularJS, Node.js, Express.js, Flask, WordPress, Material-UI, Bootstrap, GCP, AWS, Spark

**Developer Tools:** Git, VS Code, PyCharm, Android Studio, Jupyter Notebook, MongoDB Compass, Postman, Microsoft Office, Scrapy, eclipse, XCode, RDBMS, PostgreSQL, Kubernetes, Docker

**Libraries:** Pandas, NumPy, Matplotlib, Npm Libraries, Scikit-Learn

## INTERNSHIP EXPERIENCE

### Software Engineer

Jan 2022-Jun 2022

Rentech Digital, New York, USA

- Utilized agile methodology while leveraging functionality of Node.js & Express.js to create REST API, managed data through MongoDB & MySQL
- Employed Amazon S3 bucket for collection of images and videos, AWS Server for hosting, API client software Postman for testing, tracking & sharing API, on-top of work with third-party API such as Twilio, PLAID, Shopify
- Coordinated with 10 colleagues to deliver final project to client

### Software Developer

Apr 2021-Jun 2021

CHARUSAT University, Gujarat, India

- Designed an application for college placements to simplify process, which reduced paperwork by more than 50% and provided a platform for students to connect with recruiters
- Led a team of 3, responsible for frontend part and delivered app to university

### App Development Intern

Jun 2020-Aug 2020

Zibma Infotech, Gujarat, India

- Applied knowledge of android to develop a one-stop guide for Ranch Simulator game, with help of Android widgets, and Web View. Utilized YoYo animation for enhancing user interface
- Collaborated with peers and facilitated product delivery to client

## INVOLVEMENT

### Deputy Treasurer, USC HSO club

Aug 2022-May 2023

### Senior Lead AV/IT operations worker, USC Information Technology Services (ITS)

Sep 2023-Present

### Finance team Head, Computer Society of India (CSI), India

Sep 2020-Apr 2022

## ACADEMIC PROJECTS

### Named Entity Recognition (NER) with BiLSTM and GloVe Embeddings

Aug 2023-Dec 2023

- Optimized the performance of a Bidirectional LSTM model for Named Entity Recognition (NER) on the CoNLL-2003 corpus by optimizing it with GloVe embeddings, resulting in substantial improvements.
- Constructed neural networks utilizing PyTorch, TensorFlow, and sci-kit-learn.
- Achieved a 9.7% increase in validation precision, reaching 90.2%, and enhanced the F1 score by 12% to attain 90.7%.

### EventFinder | Website, iOS Application | AngularJS, Bootstrap, Node.js, TypeScript, Swift, Flask | [Demo](#)

Jan 2023-May 2023

- Utilized Ticketmaster and Google Maps APIs
- Implemented autodetect location, autocomplete search, Facebook/Twitter event sharing, and local storage for favorites

### AI Agent for Little-Go | Artificial Intelligence (AI) · Game Theory · Machine Learning · Python

Sep 2022-Oct 2022

- Devised an AI agent for Little-Go employing Alpha-Beta Pruning and Q-Learning, featuring real-time strategy adaptation and achieving a remarkable 90% win rate against online opponents.

### Credit Card Fraud Detection | Machine Learning | Python, Matplotlib, Numpy, Pandas | [Publication](#)

Jan 2021-May 2021

- Trained machine by applying different supervised and unsupervised algorithms, got an accuracy of about 94.5% in Random Forest with a precision of about 99.7%

- Having an interest in fraud detection, a group of 4 members did research work on same project and published it in IEEE

### A Ratiocinative Concept of Algorithmic Trading using MACD Indicator | [Publication](#)

Jan 2021-May 2021