Dhruv Rao

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### EDUCATION

### University of Connecticut

Master of Science - Computer Science and Engineering

Storrs, CT May 2024

Visvesvaraya Technological University

Bachelor of Engineering - Computer Science and Engineering

Bengaluru, India August 2021

# SKILLS SUMMARY

- Programming Languages: Python, JAVA, PHP, JavaScript, SQL, R, Bash, C, HTML5, CSS3.
- Library/Frameworks: React.js, Django, Flask, Node.JS, Scikit, NLTK, TensorFlow, Keras, PyTorch, OpenCV.
- Database: PostgreSQL, Oracle SQL, MySQL, SQLite, NoSQL.
- Tools: Kubernetes, Git, Docker, POSTMAN, GitHub, WordPress, Tableau, Power BI.

# WORK EXPERIENCE

#### Zerozilla Infotech Pvt. Ltd.

Bengaluru, India

Web Developer Intern

March 2021 - April 2021

- Built a house-price forecast portal as part of an Agile team using Git version control system and Python as the backend.
- Implemented a script for automated client email reports, enhancing task visualization and accuracy by 25% while cutting processing time by 40%.
- Designed multiple web pages according to client specifications ensuring optimal satisfaction.
- Created and tested APIs using POSTMAN to facilitate seamless CRUD operations on customer databases.

#### Legal Ease Technologies Pvt. Ltd.

Delhi, India

Full-Stack Developer Intern

May 2020 - July 2020

- Collaborated with a team and successfully developed a sleek official website, enhancing the company's online presence.
- Tailored user-friendly interface with an optimized checkout page, resulting in 33% increase in customer satisfaction rate.
- Performed extensive testing and crafted a user interface to ensure optimal compatibility across multiple browsers.
- Utilized MySQL for database queries, achieving a 20% improvement in data retrieval efficiency.

### ACADEMIC EXPERIENCE

### UConn School of Engineering

Storrs, CT

Graduate Teaching Assistant - Intro to Computer Architecture

January 2023 - May 2024

- Led two weekly lab sessions, teaching low-level programming with RARS and Python for Low-level development.
- Conducted bi-weekly office hours, providing student support, and giving constructive feedback to over 80+ students.
- Engaged in Grading assignments, mid-term exams, and final exams for a class of nearly 120 students.

# PROJECTS

- Record Linkage Algorithm: Developed an advanced spatial query algorithm that outperformed traditional methods, achieving 100% accuracy in high-dimensional data analysis. Optimized for various applications including healthcare and urban planning, with comparative evaluations using E2LSH.
- Bitcoin-Oracle: Leveraged the Yahoo Finance API to programmatically extract and analyze five years of Bitcoin historical data from JSON format, supporting strategic decision-making in the volatile cryptocurrency market. Achieved a notable 78% accuracy in forecasting Bitcoin prices using advanced Deep Learning and LSTM neural networks.
- Covid-Finder: Engineered a rapid COVID-19 detection website using a Convolutional Neural Network trained on nearly 10,000 sample images, achieving 93% accuracy. Additionally managed a real-time visualization of global COVID-19 statistics, including active cases, deaths, and recoveries, displayed on an interactive world map.
- Swift-Serve Finance: Created a paperless account opening software that achieved a 40% reduction in paperwork. Enhanced transaction tracking efficiency by 33% through a centralized account management system, utilizing National/Unique IDs for a streamlined operation.
- Insta Card: Designed an optimized website that streamlined credit/debit card applications, achieving a 50% reduction in processing time. Enhanced the platform by integrating a tech support chatbot that conducts credit score checks, leveraging the architecture of bank loan applications.

#### **PUBLICATIONS**

• Paper Title: [Detection of COVID-19 Infection from Chest X-Ray Images using CNN] Published after a peer review at the CiiT International Journal of Digital Image Processing sponsored 7th National Conference on Advancement in Information Technology (NCAIT), Bengaluru. (March '21)

# Honors and Awards

- Won department's top spot, earning VTU Financial Assistance for innovative projects due to consistent excellence.
- Developed a notable mini-game at the HaXploit a 24-Hour Hackathon, earning recognition from board members.
- Presented an augmented reality(AR) virtual clothing try-on system to potential investors, securing their endorsement.