Dhruv Rao

Portfolio: rao-dhruv.github.io
Github: github.com/rao-dhruv

rao_dhruv@outlook.com
+1 (860)502-8910
linkedin.com/in/dhruvrao19/

EDUCATION

- **University of Connecticut** — Storrs, CT
  Master of Science - Computer Science and Engineering — *May 2024*
- **Visvesvaraya Technological University** — Bengaluru, India
  Bachelor of Engineering - Computer Science and Engineering — *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 in an Agile team using Git and Python, enhancing real-time market analysis.
  - Implemented a script for automated client email reports, enhancing task visualization and accuracy by 25% while cutting processing time by 40%.
  - Designed client-specific web pages with optimized UI/UX using HTML, CSS, and JavaScript, ensuring high satisfaction.
  - Created and tested APIs with POSTMAN for seamless CRUD operations on the customer databases.

- **Legal Ease Technologies Pvt. Ltd.** — Delhi, India
  Full-Stack Developer Intern — *May 2020 - July 2020*
  - Worked with a team to launch a polished official website, elevating the company's online presence and engagement.
  - Tailored user-friendly interface with an enhanced checkout page, resulting in 33% increase in customer satisfaction rate.
  - Conducted thorough cross-browser compatibility testing and elevated a UI for improved performance across 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

- **Insta Card:** Engineered an optimized website that streamlined credit and debit card applications, achieving a 50% reduction in processing time. Boosted the platform by integrating a tech support chatbot that can conduct credit score checks, leveraging the architecture of bank loan applications.

- **Fashe: An Online Shopping Portal:** Created a fashion e-commerce platform using Django, featuring personalized product recommendations. Automated invoice delivery to users' email addresses significantly enhancing the user experience while also streamlining operational efficiency.

- **ChatMate:** Built an advanced conversational chatbot integrated into the web application. Achieving a remarkable 90% user satisfaction rate by leveraging Python's Natural Language Toolkit(NLTK) library and integrating OpenAI APIs. This project underscores a commitment to crafting seamless user experiences within web environments.

- **Swift-Serve Finance:** Developed a paperless account opening software using Java and MySQL, achieving a 40% reduction in paperwork. Enhanced transaction tracking efficiency by 33% through a centralized account management system, leveraging the National/Unique IDs for streamlined operations.

PUBLICATIONS

- **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 the 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.