Dhruy Jain

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Senior from UCLA actively seeking full-time opportunities in hardware design, embedded systems, and related fields.

Education

University of California, Los Angeles

BS IN COMPUTER ENGINEERING (GPA: 3.76/4.0)

Los Angeles, CA

Expected Jun 2024

Experience .

ENGR 96I - Internet of Things

Los Angeles, CA

Undergraduate Group Tutor

Jul 2023 - Present

- Collaborated with Dr. William Kaiser to enhance course content for 70 EE undergrads
- Used an STMicroelectronics educational platform to rigorously test and improve course material, ensuring its relevance
- Proactively assisted in lab sections, providing personalized guidance for improved academic performance
- · Streamlined learning with 8 informative LaTeX tutorial PDFs, improving comprehension and academic progress

Veridic Solutions Los Angeles, CA

PYTHON DEVELOPMENT INTERN

Jun 2023 - Sep 2023

- Integrated comprehensive logging mechanisms into diverse data scraper frameworks, saving 2+ hours a day
- · Configured automated data retrieval scripts using AWS, ensuring up-to-date datasets for critical operations · Designed an intuitive visual dashboard with Python and Loggly, enabling comparison of key metrics across scrapers,
- enhancing data-driven strategies

Tavant Noida, India MACHINE LEARNING INTERN Jul 2023 - Aug 2022

- Implemented data preprocessing, addressing missing values and outliers for large 400,000+ row datasets
 - Researched NBA workflows in the SaaS industry, analyzing methodologies and best practices
 - Developed NBA algorithms using Deep Learning and Reinforcement Learning techniques
 - Created a presentation on NBA workflows for future company use in training new hires

Library Assistant Supervisor

Los Angeles, CA

UCLA LIBRARY

Apr 2022 - Present

- Engaged with patrons, addressing diverse queries and enhancing satisfaction, averaging 50+ interactions daily
 Organized a 300,000+ item collection using Library of Congress classification, improving search capabilities
- Developed a standardized book processing workflow, increasing efficiency and reducing delays
- Improved office productivity by maintaining accurate records and managing a student team

Projects

Mouse Mover Demo

COMPUTER INTERFACE PROTOTYPE

youtu.be/OnOPmhkEuQk

- Developed a gesture-controlled mouse with machine learning for enhanced accessibility
- Implemented algorithms enabling seamless navigation for users with limited mobility, showcasing proficiency in HCI and inclusive design

MixBot

AUTOMATED BARTENDER

- Developed and implemented a web-controlled automated bartender system, utilizing precision dispensing mechanisms and IoT technology for customized drink orders
- Demonstrated proficiency in networked solutions, and embedded systems and integration

FPGA Drummer

PROGRAMMABLE DRUM MACHINE

- Programmed a 4-track drum machine on a Digilent FPGA using Verilog for low-latency, real-time music production
- Demonstrated proficiency in hardware design, FPGA programming, and audio signal processing

Skills

Languages: Python, C, C++, Verilog, React, Bash, SQL, Matlab

Technologies: Git, LaTeX, logic and digital design, computer architecture