Siddharth Narula

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TECHNICAL SKILLS

Artificial intelligence: Machine and Deep Learning, Image Detection, NLP
Software/Cloud: Amazon AWS
Designing: Adobe Photoshop, Illustrator, After Effects, Sony Vegas, Adobe XD
Applications and Web Designing: HTML5, CSS, Adobe Dreamweaver, Unity 3D (Including AR and VR apps and games)
Others: Data Structures and Algorithms, Object Oriented Programming, Reinforcement Learning, Cyber and Network Security

Databases: SQL, PostgreSQL, Json
Languages: C, C++, Java, Python

EDUCATION

University of Southern California, Viterbi School of Engineering   **Los Angeles, CA**
Master of Science in Computer Science   Aug 2021- May 2023

Guru Gobind Singh Indraprastha University   **New Delhi, India**
Bachelor of Technology in Computer Science (B.Tech) GPA 9.14/10   Aug 2017- Aug 2021

INTERNSHIP EXPERIENCE

Indian Oil   **New Delhi, India**
Software Developer and Machine Learning Engineer   May 2019-Jul 2019
- Designed a hardware integrated system to detect people entering the office, for proper face masks via image detection and local cameras, sensors to check their temperature without touch, marked entry and exit by identity cards.
- Created a system to report problems faced by employees of various departments and locations to the Information Security department on Excel and Python.

PROJECTS

- **Minimizing time complexity by using modified Strassen's Matrix Multiplication Algorithm on Convolutional Layers**
  Publisher- International Journal of Advanced Trends in Computer Science and Engineering, Aug 2020
  Link-https://doi.org/10.30534/ijatcse/2020/49942020.
- **Self-Driven Cars**- A deep learning project, built on a CARLA simulator, could control its speed and track nearby vehicles, traffic signs, and pedestrians.
- **Snake Game-** Developed a game by deploying reinforcement learning algorithms on the agent, it was able to self-learn and capable to improve its performance.
- **Passenger Safety-** Application for passengers traveling by cabs, to note driver's speed limits, safety in different areas, and to notify if a breach is noted.
- **Ambulance Tracker**- A mobile-based application to call an ambulance with voice command through Amazon Alexa and track it on maps by voice outputs.

LEADERSHIP AND INVOLVEMENT

- **President HelloWorld (Technical Society)-** Conducted 2 national level hackathons in 2018 and 2019 along with bootcamps, workshops and live sessions for students to familiarize with the latest technology and trends.
- **Head Graphics Designer Noor (College Magazine)-** Made printable and e-copies of college magazines.
- **Public Relations and Event Organization (College Fest)-** Planned various events in college fest, along with bringing sponsors.

HONORS AND AWARDS

- Secured **3rd position in Design Hackathon 2019** by Uttar Pradesh Institute of Design (UPID), NOIDA led a team of 4 to build a real time hardware integrated First-Aid system.
- Obtained **1st position in Annual Hackathon 2018** by Maharaja Surajmal Institute of Technology (MSIT), worked with a team of 3 making an application for correct posture and pose detection.
- Procured **1st position in Designomics 2017** by Institute of Electrical and Electronics Engineers (IEEE GTBIT), as a team of 2 making User Interface for smart application for teaching.