

KARAN TYAGI

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EDUCATION

San Jose State University (SJSU) <i>Master of Science in Software Engineering</i>	2021-2023 CGPA: 3.9/4.0
Manipal University Jaipur (MUJ), Jaipur, Rajasthan, India <i>Bachelor of Technology in Computer Science Engineering</i>	Aug 2020 CGPA: 8.1/10
Delhi Public School, Ghaziabad, India <i>Senior Secondary School</i>	Mar 2015 Percentage: 92%
D.A.V. Public School, Sahibabad, India <i>Secondary School</i>	Mar 2013 CGPA: 10/10

TECHNICAL SKILLS

- **Coursework:** Data Mining, Machine Learning, DBMS, Operating Systems, Design & Analysis of Algorithms
- **Programming Languages:** Python, MySQL, HTML, CSS, JavaScript, PHP, Java
- **Environment & Tools:** Git, Django, Heroku, Seaborn, Pandas, SciPy, Keras, TensorFlow, NumPy, PyTorch, Scikit-learn, BeautifulSoup, SQLAlchemy, PyQt, Unity, Unreal Engine, OpenCV

WORK EXPERIENCE

Research Assistant, Indian Institute of Science (IISc), Bangalore, India	Jan 2021 – Jun 2021
• Worked on Automated Driver Assistance System using Python libraries, such as TensorFlow, Numpy, Pandas, Keras under Dr. Pradipta Biswas. The project focused on improving the lane detection accuracy for Indian roads.	
Software Development Intern (Pipeline), Tau Films, Hyderabad, India	Jan 2020 – Nov 2020
• Integral part of the development team for Taco & Vendata– the proprietary pipeline tools developed using Python which are used by artists and vendors.	
• Provided technical assistance with rendering jobs to artists on a Pepsi Vietnam Commercial and a Chinese feature film.	
Software Development Intern (Pipeline), Double Negative (DNEG), Mumbai, India	May 2019 – July 2019
• Worked on developing a lighting tool using Python library PyQt and Autodesk Maya API to help reduce the light-rig setup time by 90%.	
Web Development Intern, COMP-2000, Sarajevo, Bosnia and Herzegovina	Jul 2018 - Jul 2018
• Worked on developing a website, using the .NET framework, to keep records of the client companies.	
Graphic Design Intern, Aam Aadmi Party (AAP), Delhi, India	May 2018 - Jun 2018
• Designed graphic content, using Photoshop and Illustrator, for AAP's Facebook page and Twitter handle, and also assisted new interns with the designs.	
Co-founder, Ostellos, Jaipur, India	Jul 2017 - Mar 2019
• Lead the product design and development team for Ostellos, an online platform to search for off-campus housing. The start-up was incubated in MUJ under the Atal Innovation Mission, an initiative by the government of India.	

PROJECTS

- **Drowsiness Detector** Aug 2021 - Nov 2021
Built a Django application to detect if a driver has slept while driving using OpenCV, NumPy, Pandas and deployed the application using Heroku.

LEADERSHIP

- **Chief Finance Officer, IAESTE LC (The International Association for the Exchange of Students for Technical Experience – Local Committee), MUJ** Nov 2017 - Dec 2018
 - Responsible for managing funds (membership fees, placement fees, interns' stipends, and expenditure) and analyzing the financial viability of all major activities carried out by 250-member strong organization.

HONORS AND AWARDS

- Got the second position at the State level and qualified for the National round of the Start-up League Competition, April 2018.
- Finalist in the Smart India Hackathon'19 organized by the government of India.