Anshay Agarwal

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EXPERIENCE

GreyScaleAI
Software Engineer | Bangalore | Feb 2021 – present
- Fixed more than 35 bugs within just 4 days with implementing new features and testing as well
- Worked on developing complete Deeplearning and image processing pipeline for xray cameras based detection and classification on AWS
- Writing client for communication over MQTT
- Reorganised complete code and improved build process using CMake
- Added googletest Testing and glog logging framework
- Developed and improved UI Qt design and integrated UI with PostgreSQL

Nvidia Graphics
System Software Engineer | Pune | July 2017 – July 2018
- Developed features on Tegra platform; debugging and fixing issues in the Camera Imaging pipeline and overall improvement of Imaging software stack
- Delivered more than 10 critical bug fixes on camera stack including lens shading, Cuda Histogram, etc. which helped in timely delivery of the products

Defense Research and Development Organization (DRDO)
Scientist | Dehradun, UK | August 2013 – June 2015
- Worked on reducing the vignette due to lens shading in Thermal Imagers (LREO and MREO) for night vision cameras used in military
- Delivered fixes for bore-sighting, noise and poor focus for Thermal Image enhancement of the images captured with LREO and MREO resulting in significant improvement in image quality
- Designed and constructed a Raspberry Pi based Thermal Imager controller for operating the Thermal Imager from a distance. This in-house development eliminated the need for procuring the controller from an external agency and reduced cost and development time

North Delhi Power Limited (NDPL)
Intern | Delhi | May 2011 – July 2011
- Worked on Operation and Maintenance of Grids and learned about towers, cables, SCADA panels, Smart grids and components of a grid

SKILLS
C++, Python, DeepLearning, ROS, MATLAB, 3D Modeling (Blender), CMake, OpenCV, PostgreSQL, Qt, Arduino, Coppeliasim(V-rep), Git, OpenVibe, KiCAD
Familiar with Unity Engine

EDUCATION

MASTER OF TECHNOLOGY (M.TECH.)
Computer Technology
Indian Institute of Technology Delhi (IIT Delhi)
New Delhi | 2017
- Dissertation: Thermal Video Stabilization, which stabilizes a video captured through night vision camera
- Project on Brain Computer Interfacing which involved moving a cursor on the screen using Motor Imagery signals captured via EEG

BACHELOR OF TECHNOLOGY (B.TECH.)
Electrical Engineering
Indian Institute of Technology Mandi (IIT Mandi)
Mandi, HP | 2013
- Thesis: Automobile Collision Prevention System
- Founded Robotics Section of IIT and built 1st robot of IIT Mandi from scratch
- Member of Electronics Section
- Recipient of Merit Cum Means Scholarship

CERTIFICATES / SPECIALIZATIONS

TensorFlow Developer Professional Certificate
Deeplearning.ai
Coursera (Online, 2019-2020)
A grounding to start with TensorFlow, detailing on understanding of loss functions, optimizers, convolutions, LSTM, etc.

Deep Learning Specialization
Deeplearning.ai
Coursera (Online, 2018-2019)
Foundations of Deep Learning and understanding of Convolutional networks, RNNs, LSTM, etc

ACTIVITIES
- Organized and managed workshop on Mobile Autonomous Robotics at IIT Mandi
- Workshop on Swarm Robotics at Thapar University
- Organized multiple events at Cognizance 2009 at IIT Roorkee

ACCOMPLISHMENTS
- GRE Score- 321/340 (170/170 in Quantitative)
- IIT JEE Rank - 3547 (~0.4 million students)
- GATE Rank - 423 (99.998 percentile) in Electronics and Communication
- Among top 0.1% students of India in XII board exams (AISSCE) in Mathematics (100%) and Computer (99%)

PSYCHOMETRICS
- MBTI INTJ-T: The Architect, Analyst, Constant Improvement
- ENNEAGRAM 6w5: "The Guardian = Loyalist wing Investigator"
- VIA CHARACTER STRENGTHS: 1 Creativity, 2 Honesty, 3 Perspective, 4 Good Judgment, 5 Curiosity

ADDITIONAL COURSES
Robotics
- Foundations of Robot Motion
- Robot Dynamics
- Robot Kinematics
- Swarm Robotics

Neuroscience
- Fundamental Neuroscience for Neuroimaging
- Medical Imaging technologies: MRI, fMRI, PET, CT, Ultrasound, XRay
- The Brain and space
- Synopses, Neurons and brains