TANMAY AGARWAL

[Github] ⋄ [Leetcode]

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ABOUT

I am a computer science engineer with passion for **coding, autonomous robotics and physics**. Fascination about the ethereal beauty of cosmos has made me an autodidact in physics and robotics.

SKILLS - TECHNICAL

Programming Languages	Python, C and C++, Structured Query Language (SQL)
Programming Concepts	Object Oriented Programming, Algorithms and Data Structures
Machine Learning Concepts	Supervised and Unsupervised Algorithms, Deep Neural Networks
Software and Technologies	Linux, Git, Docker, Arduino, Raspberry pi, LaTeX

EXPERIENCE

UAV Engineering Intern — *October 2020 - December 2020*
Binford Research Labs Inc.

· Skills : Robotics, Computer Vision, Machine Learning, Python and Embedded C++, Dronekit
· Fabricated semi-autonomous Unmanned Aerial Vehicles for commercial and industrial sectors
· Analysed simulated data with regards to real time object detection and avoidance

Software Engineering Intern — *January 2019 - February 2019*
Binford Research Labs Inc.

· Skills : Python, C++, Embedded programming, Mission planners, Arduino, Raspberry pi
· Worked in a team of six members on real world software deployment
· Investigated the interference of magnetic and electrical fields on an on-board telemetry module

EDUCATION

Gitam University Hyderabad — *Grad 2021*
Bachelor Of Technology in Computer Science and Engineering — Overall GPA: 8.40/10

Page Junior College Hyderabad — *Grad 2017*
Specialisation in Maths, Physics and Chemistry — Overall GPA: 8.09/10

St Pauls High School Hyderabad — *Grad 2015*
Primary and Secondary education — Overall GPA: 9.30/10

INTERNSHIP AND MAJOR PROJECTS

- [A deep learning approach and bio-inspired computation for survival prediction]
  - Deep Learning | TensorFlow | Python | Keras | Google Collab | PySwarm

- [Real time obstacle detection and avoidance for Unmanned Aerial Vehicles]
  - Machine Learning | OpenCv2 | YOLO | TensorFlow | Pixhawk | QGroundControl

- [Classification of Malignant and Benign tumor using machine learning models]
  - Machine Learning | Scikit Learn | Python | TensorFlow | Jupyter Notebook

CERTIFICATIONS

- [Certification] on python data structures offered by university of Michigan on coursera

- [Certification] on machine learning foundations offered by university of Washington on coursera