

# Aaditya Prakash Kattekola

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Github: [github.com/Kapi2910](https://github.com/Kapi2910)

## EDUCATION

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- National Institute of Technology** Warangal, India  
*Bachelor of Technology; CGPA: 8.38*  
*Department: Electronics & Communication Engineering*  
July 2019 - Present
- Indian School Muscat** Muscat, Oman  
*CBSE Class 12; Percentage: 91.8%*  
*Subjects: Mathematics, Physics, Chemistry, Computer Science(C++, SQL, Python), English*  
Mar 2018 - Apr 2019

## EXPERIENCE

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- University of North Texas** Denton, Texas  
*Visiting Scholar*  
May 2022 - Present
  - Description:**
    - \* Building an autonomous aerial traffic management system that plans optimal, collision-free paths through the air space under **Dr. Kamesh Namuduri**
    - \* Visited UNT, Denton in May 2022 for 90 days. Have been working remotely thereafter.
  - Department:** Electrical & Computer Engineering
  - College:** College of Engineering
  - Skills Acquired:** Mathematical Modelling, V2V communication, Reinforcement Learning, Literature Survey, Article Writing (using  $\text{\LaTeX}$ )
- GBit Studios** Warangal, India  
*Worked As:*  
Aug 2019 - Dec 2020
  - Game Programmer:** Created interactive environments, character AI, designed games
  - Project Lead:** Lead a team of 10 members and made "Net-It", a mobile game with **1000+** downloads each on the app store & play store
  - Other Works:** Conducted interviews & training sessions on the Unity game engine & programming patterns
  - Skills Acquired (Tool used):** Game Programming Pattern(Unity3D), 3D Modelling(Blender), Project & Team Management(Trello), Version Control(Git)
  - Website** [www.gbitstudios.com](http://www.gbitstudios.com)

## PROJECTS

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- Multi-Template Matching of Retinal Diseases (On Going):** Use of Multi-Template Matching on the fundus images to diagnose various retinal diseases under **Dr. Farukh Hashmi**, Department of Electronics & Communication Engineering, National Institute of Technology, Warangal
- Optimisation of Covid19 Vaccine Supply Chain (March 2021 - August 2022):** Mathematical Modelling & Optimization of Covid19 Cold Chain in the state of Madhya Pradesh, India using AnyLogistix under **Dr. Suman Niranjan**, Department of Logistics & Operations Management, University of North Texas, Denton

## PRESENTATION

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- A. P. Kattekola**, R. D. Reddy, S. Abdullah, S. K. K. Vempati, P. Sreeharirao, 'Localization Methods for FWMAVs for Smart Pollination', *IEEE International Symposium on Smart Electronic Systems (iSES)*, December 2022, Warangal, India

## MANUSCRIPTS IN PROGRESS

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- Generalized Fading Channel in RIS-Aided NOMA** Performance Analysis of a RIS-Aided NOMA System in  $\alpha$ - $\mu$  &  $\kappa$ - $\mu$  fading channels under **Dr. Anuradha Sundru**, Department of Electronics & Communication Engineering, National Institute of Technology, Warangal (Submitted to ICETE, Osmania University)

## EXTRA-CIRRICULAR

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- Robotics Clubs NITW** Warangal, India  
*Co-President*  
Aug 2021 - Present
  - Led a team of 8 students in brainstorming, designing & building 2 robots for DDROBOCON, a national competition organized by IIT Delhi
  - Conducted several training workshops on Arduino programming, Solidworks and ROS

## HONORS AND AWARDS

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- Scholarship Program for Diaspora Children** Ministry of External Affairs, Govt. of India  
*Merit-based scholarship awarded to only 150 students in India*  
Nov 2019

## VOLUNTEERING EXPERIENCES

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- Care & Special Education** Indian School Muscat, Oman  
*Taught necklace making to individuals with intellectual disability*  
Aug 2018 - Mar 2019