

Nikhil Gupta

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EDUCATION

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI
B.E. IN ELECTRICAL AND ELECTRONICS ENGINEERING
Expected June 2020 | Pilani, India

MDPS SCHOOL, FARIDABAD
GRAD. MAY 2016 | FARIDABAD, INDIA
Senior Secondary Result: 94.8 %

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms
Object oriented Programming
Operating Systems
Foundation of Data Science
Number theory
Optimization
Discrete structure for Computer Science

SKILLS

Programming Languages:

- C++ • Java • Python • C • C #

Familiar:

- Unity • Docker • Tensorflow • Pytorch
- Keras • GCP • Android

Operating Systems:

- Windows • Linux

GOOGLE FOOBAR

- Received the rare Google foobar challenge from google
- Currently on level 4 of the challenge

POSITIONS OF RESPONSIBILITY

IEEE BITS PILANI STUDENT CHAPTER

CHAIRMAN OF TECHNICAL COMMITTEE

April 2018 – Feb 2019

- Led a team of 53 students
- Organised numerous IEEE affiliated events like conclave, workshops, robotics and CS based events in college tech fest

TEAM ROBOCON

CHIEF PROGRAMMER

Aug 2016 – Jan 2018

- Wrote complete code of locomotion for our robot in ABU Robocon'17
- Organised workshops of line/ball following bot using open cv in our college

OLYMPIADS/COMPETITIONS

- Google Kickstart Rank- 221 || 2018
- ICPC RANK 117 Online Prelims || 2018
- ABU ROBOCON || 2017
- NTSE State Rank 2 || 2014
- NSEA Scholar || 2014
- RMO Scholar || 2015

EXPERIENCE

HELLOWORLD | Co-FOUNDER

Dec 2017 – Sep 2018

- Provides AR/VR/MR solutions for interior designers, product designers and architects
- Used HTC VIVE and unity to create and demonstrate 3D interactive visuals of raw designs for effective client engagement and presentations
- Tech stack used : Vuforia, C#, Android studio, Java, HTC VIVE, Unity

QUANTIPHI ANALYTICS (R&D TEAM) | AI/ML RESEARCH INTERN

July 2019 - Present | Mumbai, India

- Currently exploring multi-modal fusion techniques
- Deployed Pytorch and Keras deep learning models in production using Tensorflow Serving and flask, reducing the inference time by 30%
- Trained an enhanced super-resolution generative adversarial network and achieved a PSN ratio of 44 (state of the art network in super resolution)
- Tech stack : GCP, Tensorflow, pytorch, Docker, onnx, keras, python, flask, HTML

SAMSUNG R&D INSTITUTE | RESEARCH INTERN

May 2019 – July 2019 | Noida, India

- Created a proof of concept for a patent under the IP team of Samsung R&D (The project is still under the process of patenting)
- Was offered a pre-placement offer by the company
- Tech stack: Android Studio, Java, TensorFlow Lite for On device Inferencing, python

WEIR ENSCI | INTERN

April 2019 – May 2019 | Bangalore, India

- Used IoT devices and AR markers to develop an app to eliminate high machine operation complexities and provide safe working environment. Project demo link : [click here](#)
- Secured the internship by winning the Tech Meraki Innovation Challenge
- Tech stack: Arduino, Relays, Android studio, Unity, Vuforia, C#, Java

ZEISS INNOVATION CHALLENGE

ORGANIZED BY: CARL ZEISS Aug 2018 | Vienna , Austria

- One of the eight global participants to present their idea and work with the team of Carl Zeiss in Vienna, Austria in the field of 360 experience and perfect photography
- Presented the idea of using a cluster of miniature drones during events to generate a 3D holographic video of the event

PROJECTS AND COMPETITIONS

VIDEO360 | WINNING PROJECT OF MICROSOFT CODEFUNDO-ONCAMPUS

Feb 2018

- Developed an Android app which captures 360 video in smartphones by stitching video feeds from connected sources.
- Facilitated capturing 360 visuals using multiple smartphones with the help of fisheye lens, cutting their development cost by 60%.
- Tech stack : Android, OpenCV, Python, Java || Project demo link : [click here](#)

BANKAR | AMONG TOP 4 TEAMS IN BENGALATHON: NATIONAL LEVEL HACKATHON

Aug 2018

- Developed a POC for an AR banking app to analyze daily expenses, bank balance and debit/credit card transactions. Project demo link : [click here](#)
- Data analysis through 3D AR charts and graphs displayed over credit/ debit card

FLASH BILL | RUNNER UP PROJECT IN MICROSOFT CODEFUNDO-ONCAMPUS

Jan 2017

- Developed an Android app to generate electricity bill in real time to eliminate the time gap between usage and billing of electricity
- Shortlisted for shopclues spark 3 innovation challenge onsite finals
- Tech stack: Android studio, raspi, hall current sensor, java, python