SIDDHANT AGARWAL

Undergraduate Student | NIT Kurukshetra
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Education

National Institute of Technology Kurukshetra   July 2017- June 2021 (Expected)

- Bachelors in Technology (Electronics and Communication Engineering)
  CPI:7.45/10.00 (Upto 6th Sem)

Delhi Public School Ghaziabad, Ghaziabad   2015-2017

- CBSE Intermediate/+2, Percentage: 93 %
- CBSE Matriculation, CGPA: 10.00 / 10.00

Internships and Work Experiences

Software Development Internship, Staqu Technologies   (December 2019 – May 2020)

Staqu, an AI startup, is crunching data and GPUs to process data for recommendation and analytics.

Project title: Video Streaming Engine

I worked on developing a Video Streaming Engine which will be a part of the product pipeline and deliver services like live streaming, video on demand. Got hands on experience managing socket connections and parallel programming and optimize the project for the live product.

Worked on scaling present projects of the company. My other work includes:

- Adding CI/CD to the project
- Design of modular server components for Web applications
- Developing and scaling REST APIs

Tools / Technologies Used: Python-Django, Postman, MySQL, Redis, C++, Docker, Ansible

Back-End Development Internship, Paralleldots Inc.   (May 2019-August 2019)

ParallelDots is an AI Startup that provides powerful do-it-yourself tools and customised solutions to turn your organisation into an AI powerhouse. My day-to-day responsibilities includes:

- Building server-side logic that powers APIs
- Writing **REST APIs** using **Python** Flask framework
- Working on large scale web crawling
- Collaborating with the data science team to build data pipeline

Tools / Technologies Used: Python-Flask, Postman, MongoDB, MySQL, Redis, RabbitMQ

Technical Skills

Programming	C++, C, Python, SQL
Courses	Data Structures, Algorithms, Computer Network, Computer Architecture, Object-Oriented Programming
Tools & Technologies	HTML, CSS, Django, Flask, MongoDB, Redis, Docker, Ansible, Azure
Data Science	TensorFlow, OpenCV, Scikit-learn, Colab, Jupyter Notebook
Software	Git, MATLAB, Arduino IDE
Operating System	Windows, Linux

Projects

Image Processing Robot - Computer Vision, Python, Open – CV   Winter 2018

Project Part of Pixelate Event of Technex'19   IIT BHU (Varanasi)

- An Autonomous Robot solves a given Puzzle and reaches the spot following the shortest path.
- Using **Backtracking algorithm** method, we estimated shortest path between neighbouring arrays in the clip
- Separating different colours by utilizing an adaptive thresholding method on the automatically cropped matrixes.

Blogging Web Application - Development, Python   Summer 2018

Project Link: https://github.com/GrtSid/django-siteone   NIT Kurukshetra

- Developed a web application which could be used by people for blogging.
- The users can login to the application and express their views related to any topic and the readers can thereby upvote the blogs.

Smart Garbage Bin - Internet of Things, Web Application   Winter 2018

Project Part of Productathon, E-summit'19   IIT Roorkee

- Developed a working prototype of a garbage bin using Arduino, ultrasonic and IR sensor which indicates garbage level of bin on web interface
- Using **Dijkstra's shortest path algorithm,** we provided the driver of the garbage truck with an optimized path to follow for the collection.

Awards & Scholastic Achievements

- Secured **All India Category Rank in top 10%** in **JEE Advanced** among 220,000 aspirants. (2017)
- Secured **All India Category Rank in top 1%** in **JEE Main** among 1.2 million aspirants. (2017)
- 100% Scholarship Holder in Higher Secondary Education.
- Awarded Certificates of Merit for excellent performance in academics from 6th to 12th standard.
- Secured 1st Position in MicroXplorer event, a national level competition in NIT Kurukshetra (TechSparda'18).
- Secured 1st Position in Simulator event, a national level competition in NIT Kurukshetra (TechSparda'19).
- Secured 1st Position in Pixar event, a national level competition in NIT Kurukshetra (TechSparda'19).
- Secured 95 percentile score in National Science Olympiad conducted by Science Olympiad Foundation   (SOF).(2015)

Positions of Responsibility

Networking & Outreach Head   Aug 2019 - Present

Industry cell, NIT Kurukshetra

- Responsible for managing the club's Activities and organizing events to develop the Entrepreneurial culture among freshmen.

Group representative Recent Technologies   Aug 2018 - Present

EmR (Embedded systems and robotics club) CLUB, NIT Kurukshetra

- Responsible for conducting various workshops, talks and hands-on sessions for the students in their junior and sophomore year.