AKHIL N KASHYAP   16613216IT104
Information Technology   **UG Second Year**
National Institute of Technology Karnataka   **Male**
Speacialization: Information Technology   **DOB: 15/01/1998**

EXAMINATION	UNIVERSITY	INSTITUTE	YEAR	CGP /%
Graduation	NITK Surathkal	NITK Surathkal	2018	8.09
Intermediate/+2	Karnataka Board	Expert Pre University	2016	96.5
Matriculation	CBSE	VVS BM Sri E I	2014	10.0

ACADEMICS:

- Secured **All INDIA Rank 6227** in **JEE MAINS** out of 11,00,000 students
- Cleared the **JEE Advanced** examination
- Secured **242** rank in Karnataka CET(PCM) out of 1,71,000 students   (2016)
- Cleared the state level NTSE examination and secured a state rank of **24**   (2014)
- Currently pursuing B.Tech in Information Technology at NITK,Surathkal

PROJECTS:

◆ QR code scanner using Raspberry Pi: (ongoing)
   Developing a QR code scanner using Raspberry Pi as a part of the Smart Maker Space project.

◆ Fog computing using IR829 router: (2018)
   Implemented data processing at the router, before sending data to the cloud, using the Cisco IR829 series router, which reduces dependency on the cloud for data processing. Also this model helps in taking some of the realtime decisions more quickly. Implemented the same model using a Raspberry Pi as well.

◆ Comparitive study of path finding algorithms: (2018)
   A comparitive study of some of the classic path finding algorithms such as Dijkstra's, bidirectional Dijkstra's and A* algorithms.

◆ Animation using OpenGL: (2018)
   A basic version of Pinball game developed from scratch using OpenGL. All the premitive and basic functions required were written from scratch and not directly used.

◆ Optimizing Data Storage using the TRIE Data Structure: (2017)
   Implemented a multi way search TRIE to optimise Data Storage. Programmed in Python language, also contains usage of JSON tokens for Web scraping.

SKILLS:

- **Programming Languages:** C, C++, Python, UNIX
- **Web designing:** HTML, CSS, Bootstrap
- **Other related skills:** Docker, Router configuration
- **Cloud services:** Google cloud,Firebase
- Also familiar with **React JS, Arduino** and **Django framework** programming.

INTERNSHIPS:

- Interned at **FluxGen,** a IoT based startup and worked on **Fog Computing** and also currently working on their **Smart Maker Space** project. (2018)
- Was part of the iOS app development team for an e-commerce startup called **Savemonk** and worked on development of an iOS app using **React native** and **Expo**. (2018)
- Completed a summer mentorship programme on **Microcontrollers.** (2017)
- Interned at a Technical Writing start-up by the name **PULOMAS** in Mysore and worked on Technical Documentation. (2017)

COURSES UNDERTAKEN:

Computer Science:
Basics of C programming
Data Structures and Algorithms
Paradigms of Programming 1 & 2
Unix programming and practice
Digital design and Computer Architecture
Design and Analysis of Algorithms
Computer communication and Networking
Operating System
Object Oriented Design and Analysis
Computer Graphics
Web Technologies and Applications*
Automata Theory and Compiler Design*

Soft Computing*
Number Theory and Cryptography*
Database Systems*
Parallel Computing*
Distributed Computing Systems*

Maths and Science:
Modern Physics
Engineering Chemistry
Engineering Mathematics 1
Engineering Mathematics 2
Mathematical foundation of IT
Engineering Economics*

(*to be completed by December 2018)

CO-CURRICULAR ACTIVITIES:

- Volunteered for the preparations during INCIDENT, the annual cultural fest of NITK, Surathkal. **(2017)**
- Volunteer during the annual Films' Fest organised by the Films' Club of NITK. **(2017 & 2018)**
- Raised funds for Beach Schooling, a mentoring programme for the under-previliged children taken up as a part of the i-care initiative. **(2017)**