

# Manas Gupta

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## EDUCATION

### NITK, SURATHKAL

B.TECH. IN COMPUTER SCIENCE AND  
ENGINEERING  
CGPA: 8.13

### SACRED HEART CO-ED SR.SEC. SCHOOL, INDORE

CLASS XII (CBSE) | 94.4%

CLASS X (CBSE) | CGPA: 10.00

## LINKS

GitHub:// manas11  
LinkedIn:// manasgupta11

## COURSEWORK

Data Structures and Algorithms  
Object Oriented Programming  
Software Engineering  
Operating Systems  
Computer Organization and  
Architecture  
Concrete Mathematics

## ACHIEVEMENTS

AIR 2770 in JEE Mains out of 1.2  
million candidates.

## EXPERIENCE

### IRIS NITK | BACKEND DEVELOPER INTERN

May 2019 – July 2019

- We are a team of motivated students from NITK Surathkal, developing and expanding a digital portal that ensures that all administrative, academic and alumni related procedures take place methodically.
- Worked on developing the Employees Complaints Module to manage complaints filed by the employees at NITK. This module is used by about 500 employees.
- Made enhancements to the Employee Quarters Module. Added manual allocation, de-allocation of quarters, and option to import initial data from CSV.

## PROJECTS

### BARGAINER ANDROID APPLICATION

- Developed an Android Application to help those people who do not have bargaining skills and can easily be conned or for those people who have moved to a new town and have less knowledge about the shops.
- Implemented location-based search using Google Places API, end to end chat, QRCode based payment, and integrated the application with Firebase Database.

### DSL AND AUTOMATED CODE GENERATION

- Developed a DSL(Domain Specific Language) and generated automated code segments to reduce energy-related code smells in Android applications.
- Used Xtext for DSL and Xtend for code generation. Deployed as an Eclipse plugin to be used by the android developers.

### IPERF IN NS-3 DCE

- Worked on adding dumbbell topology with n clients, two routers, one server in ns-3 DCE(Direct Code Execution).
- Used Iperf client on the server and clients to measure bandwidth and latency with a change in the TCP window size, number of clients, and UDP usage.

## SKILLS

### PROGRAMMING

Acquainted:

C • C++ • Java • Android Studio • Ruby on Rails • HTML5

Familiar:

Python • MySQL • LaTeX • Git • Xtext