

# Nikhil Kumar

Software Engineer 1 at Cadence Design Systems

## Experience

**Cadence Design Systems** July, 2020 – Present  
**Software Engineer 1**

- Working on Chip Design Implementation Tool - INNOVUS module partition
- Developed features for partition module helping in dividing chips into sub chips, saving portable chip designs and assembling back the saved designs using C++, CVS, GDB, make.

**Morgan Stanley** May, 2019 – July, 2019  
**Technology Analyst Intern**

- Developed a scheduling application in Scala to schedule report's execution.
- Provided financial users of report with an option to schedule the reports to run at the mentioned time.
- Saved 50 to 100 man hours of controllers per day.

**Technologies Used:** Scala, SQL, Hibernate

## Education

**Bachelor of Engineering: Computer Engineering**  
Netaji Subhas Institute of Technology, University Of Delhi, Delhi  
CGPA – 8.4 2016 - 2020

**Senior Secondary**  
R. M. S. M. Public School, Delhi  
Class 12<sup>th</sup> – 94.8% 2016  
Class 10<sup>th</sup> - 10 CGPA 2014

## Projects

**Image Steganography**

- Built an application capable of sending a secret image over an insecure channel to receiver.
- The application was made using GAN and CNN.
- Python, Google Collaborator

**Task Scheduling in Cloud Using Genetic Algorithm**

- A Genetic Algorithm based task scheduling technique which will distribute the load effectively among the virtual machines to reduce the time.
- The completion time increased by 10% in comparison to traditional algorithms.

**Bus Seat Booking Application**

- Developed a desktop application in Java.
- The users of application can book seats for buses between different cities.

## Contact Details

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## Skills

C	Java
C++	Scala
Data Structures	Python
Algorithms	ML
SQL, Unix/Linux	
Hibernate	
HTML, CSS, JavaScript	

## Courses

Operating Systems  
Computer Networks  
Database Management Systems  
Object Oriented Design  
Machine Learning  
Cryptography

## Profiles

**Leetcode**  
[leetcode.com/nikhil\\_1407/](https://leetcode.com/nikhil_1407/)

**Codechef**  
[codechef.com/users/nikhil\\_1407](https://codechef.com/users/nikhil_1407)

## Activities

Ranked in Top 2% out of 12000 (approx.) participants in codeforces round 650

Solved more than 800 problems on different coding platforms.

Participated in a printed circuit board fabrication workshop organised in college by CEDT