# SHIVAM NAYAK

@ shivamnayak25.sn@gmail.com    in shivam-nayak-647316199    ⌨ Daddycool9999

## EDUCATION

### B. Tech in Computer Science and Engineering
**International Institute of Information Technology, Hyderabad**

📅 July 2018 – Present      📍 CGPA: 7.61/10

## WORK EXPERIENCE

### Software Development Intern
**FIVE FINGERS INNOVATIVE SOLUTIONS**

📅 January 2020 – April 2020      📍 Hyderabad, India

- Designed and analysed a software system to automate the process of object identification, object extraction, and noise removal, for objects in a 3-D scene.
- Technologies: OpenCV, Tensorflow, Django, Cloudcompare.

### Android Developer
**Suryabala Energy Solutions (OPC) Private Limited**

📅 June 2020 – July 2020      📍 Remote

- Building an android application for real time data access and updation in IOT based cloud storage for electrical consumption of appliances in residential/commercial buildings.
- Technologies: Android Studio, REST API, Thingspeak.

### CSE Subject Matter Expert
**Chegg India**

📅 March 2020 – Present      📍 Remote

- Providing solutions and explanations to CSE based problems of students across the globe through the platform provided by Chegg.com.

## RELEVANT COURSEWORK

- **Computer Science** : Data Structures and Algorithms, Introduction to Software Systems, Design and Analysis of Software Systems, Machine Data and Learning, Computer Systems Engineering-1, Algorithm Analysis and Design, Software Programming for Performance, Data and Applications, Automata Theory.

- **Mathematics** : Probability and Statistics, Linear Algebra, Discrete Structures, Real Analysis, Introduction to Information Security.

- **Miscellaneous** : Introduction to IOT, Embedded Systems Workshop.

## ACHIEVEMENTS

**ACM-ICPC 2018 :**
- **Team rank 867** in ACM ICPC online round.

**Competitive Programming Profile :**
- **5 star coder** in **CodeChef**
- **Expert** in **CodeForces**

**Other Scholastic Achievements :**
- Secured **All India Rank 1100** in **JEE Advanced-2018** among more than 200,000 contesting candidates
- Secured **All India Rank 493** in **JEE Main-2018** among more than 1 million candidates
- Recommended, with an **All India Rank 690** ,for **KVPY** Fellowship Award-2016.

## SKILLS

- **Programming and Scripting** : Data Structures and Algorithms, C, C++(STL), Python, Javascript, Java, Bash.

- **Web and Databases** : Firebase, MySQL, HTML, CSS, React, NodeJs, Express, MongoDB.

- **Miscellaneous** : Linux, x86-Assembly, Git, LaTeX.

## PROJECTS

### JetPack Joyride

- Created a replica of the famous game Jetpack joyride in Python without the use of external libraries. [ **Python, OOPS** ]

### Car Detection in Images

- Trained and used a 15 stage cascade classifier for detecting cars (side view) in UIUC car data-set using opencv library in python. [ **Python, OpenCV** ]

### Linux Shell

- Used syscalls to create a basic bash-like Linux shell in C programming language.Key features included foreground and background processes, piping, redirection, signal handling and user defined commands. [ **C, Operating Systems** ]

### Xv6 Process Scheduler

- Added custom process schedulers including FCFS Scheduler, Priority Based Scheduler and MLFQ Scheduler in MIT Xv6 OS. [ **C, Operating Systems** ]

### Firebase based Application

- Created android application that implements the use of most Firebase features like authentication, realtime database, storage to provide login/signup, realtime chat messaging, image uploading. [ **Android Studio, Java, Firebase** ]

### GPS Base Stations

- Developed and deployed an IOT based solutions to find location using DGPS. [ **Arduino, NEO-6M GPS Sensor, UART, Thingspeak** ]

## EXTRACURRICULAR

- Member of Felicity Sports Organisation Committee.
- Member of College Football team.