

# KUNAL DHANRAJ MOHARKAR

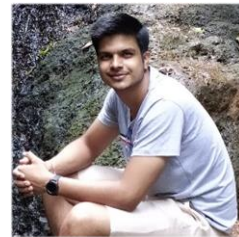
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## EDUCATION

**Visvesvaraya National Institute of Technology - Nagpur, India**

**July 2018 – May 2022**

- BTech in Computer Science and Engineering – **CGPA: 9.29/10**
- **Courses:** Data structures and Algorithms, Operating Systems, DBMS, Object Oriented Programming, Web Development

## WORK EXPERIENCE

**Technology Analyst Summer Intern, CITI – Pune, India**

**May 2021 – July 2021**

- Reduced the computation time by ~67% of the python-based risk calculation scripts using **Multithreading**.
- Developed a web API using **Django**, leading to ease in scripts invocation.

**Web Team AXIS, VNIT – Nagpur, India**

**Dec 2020 – Mar 2021**

- Developed an event registration portal for AXIS- Techfest, VNIT using **Django Framework**.
- Designed a high end responsive UI using **CSS Animations, Particle JS** and **jQuery**.
- Deployed the website using **AWS**, successfully handled **1700+ users** registering for multiple events.

## PROJECTS

**Searchable Image Encryption**

- Implemented **IEEE 2021** research paper - **Privacy-Preserving Threshold-Based Image Retrieval in Cloud-Assisted IOT** using python.
- Implemented all the algorithms (**Key generation/ Chaotic mapping for image encryption/ Trap door generation/ Search**) from scratch and simulated the process using **OpenCV**.

**Chatroom**

- Developed a web socket API, using **Express JS** and **Sockets.io** to build real-time chatroom plugins.
- Deployed a **React JS** web app consuming the API using **Heroku** and **Netlify**.

**Projects corner**

- Developed a Projects section using **Django-rest-framework** and **React JS** for the Student portal, VNIT web Platform, leading to the digitization of the process of project application on campus.
- Secured the APIs using **JWT** authentication and migrated the media storage to the **AWS S3** bucket.

**Election Portal**

- Developed a platform to conduct online elections in universities using **Django**.
- Handled multiple constraints like - Restricted elections, One vote per voter, and time window implementation.

## SKILLS

- **Programming Languages :** C, C++(advanced) **Python, JS(ES6)** (intermediate)
- **Frontend :** **HTML, CSS, Responsive Design**(intermediate), **jQuery** (beginner), **React JS** (intermediate)
- **Backend :** **Django, Django-Rest** (advanced), **Express JS, Rest APIs**(intermediate), **LAMP**(beginner)
- **Mobile Development :** **React Native** (beginner)
- **Databases :** **MYSQL**(intermediate), **Mongo**(beginner)
- **Others :** **AWS, Version control** (intermediate)

## ACTIVITIES

- Worked as **Publicity In-charge** of Junior Scientist, AXIS'21. The event had a participation of **2500+** students from schools all over Nagpur.
- Secured a position In **top 50 teams** at **HACK 36** organized by **MNNIT, Allahabad**.