VISHAL AGARWAL

Senior Undergraduate, Dept. of Civil Engineering
Minor in Industrial and Management Engineering

✉: vishalag@iitk.ac.in
☎: (+91)-941-360-5678
�: Vishal Agarwal | in: Vishal-Agarwal

EDUCATION

Year	Degree/Certificate	Institute	Performance
2017 - Present	B.Tech	Indian Institute of Technology, Kanpur	7.52/10.00
2017	Grade 12 (CBSE)	DAV Public School, Kota	92 %
2015	Grade 10 (CBSE)	DAV Public School, Kota	10.0/10.0

AWARDS AND ACHIEVEMENTS

2019 Represented **IIT Kanpur** at **National Level** for Microsoft Academic Accelerator Program at Hyderabad and Bangalore
2019 Received **A*** grade in the course-work **Financial Economics**; Awarded to **Top 1% students** in a course at IIT Kanpur
2018 Achieved an All India Rank **(AIR) 7** in the **World Code-Gym Challenge** among **1700+** participants across the nation
2017 Received **INSPIRE Scholarship** award by **Department of Science and Technology** among **100** students across IITK
2017 Secured All India Rank (AIR) of **6467** in JEE Advanced'17 and AIR **8625** in JEE Mains'17 among ~**15 Lakh** students

PROGRAMMING ACHIEVEMENTS

Microsoft Code.Fun.Do | **National Winner out of 500+ teams across India**   Sep 2018 - Jan 2019
Supervisor: Mr. Pratik Golchha (Software Engineer)   *Hyderabad (India), Bangalore (India)*

- Developed a **Cloud based platform** containing **Chat-Bots** & low latency disaster awareness system with Azure & Google SDKs
- Modelled **Earthquake** data fetched from **USGS** using **seasonal ARIMA** time series and **Long Short-Term Memory** models
- Utilized Python and ChartJs to clean, scrap and visualize **Wildfire** data fetched from **NASA** for statistics and time series analysis

WORK EXPERIENCE

Deskera | **Software Development Intern**   April 2020 - June 2020
Supervisor: Mr. Prashant Majhwar (Sr. Technical Architect)   *Pune (India)*

Objective	▪ Developing an **Angular Library** from scratch that assists **Web Component** scanning across **Angular Web Apps**
Strategy	▪ Developed an **Extractor** to store (Target-Id) & map (Angular component) preserving relationship of components ▪ Optimized Library for **seamless integration** into core software base with single Configuration File & Event handler ▪ Deployed to **npm** with Documentations, Proof of concept and code-snippets for automated On-Boarding Set-Up
Impact	▪ Successfully completed development & testing of Library **(Ngx-Drive)** (**Now in Production on Deskera Books**) ▪ Awarded a full time **Pre-Placement offer (PPO)**; Amongst **Top 5 out of 10** from IIT Kanpur to receive PPO

Full Stack Developer Intern   May 2018 - July 2018
IIT Kanpur Summer Of Code (Conducted by Nutanix and UPSIDC)   *Kanpur (India)*

- *Objective :-* Narrowing down projects by **extracting key ideas** from projects offered by professors in accordance to student needs
- Utilized **NLTK** Library for **NLP** to generate Tags and summarize projects offered by professors to increase reach among students
- Developed a dynamic and Interactive web application with a **Chat** and **Notification system** using **Web Sockets** and **VanillaJS**
- Added support for uploading project files & fetching data from server in **JSON** format; Designed Backend in **NodeJs** & **MongoDB**

KEY ACADEMIC PROJECTS

WebApp Penetration Testing   May 2019 - July 2019
Supervisor: Prof. Sandeep Shukla (HOD CSE Dept)   *IIT Kanpur*

- Pen-tested Institutes registration portal using BurpSuite & OWASP ZAP; Produced **POC** and Solutions of reported vulnerabilities
- Mapped the entire platform and discovered vulnerabilities sensitive to Student data, Faculty data and institutes main server details

RELEVANT COURSEWORK   ** - Ongoing ** - Online Course*

Applied Machine Learning	Data structure & Algorithms**	Probability & Statistics	Financial Economics
Financial Econometrics	Financial Engineering	Social Media Analytics*	Introduction to Economics

TECHNICAL SKILLS

Programming	C, Python, JavaScript, TypeScript	**Tools**	Android Studio, Firebase, Burp Suite, Git
Libraries	Bootstrap, jQuery, Tensorflow	**Utilities**	Angular, NodeJs, MongoDB, Flutter

POSITION OF RESPONSIBILITY

Head Web | **Udghosh, Inter College Sports Festival, IIT Kanpur**   April 2019 - March 2020

Leadership	▪ Spearheading a **4-tier team** of **160+ executives** to conduct one of the biggest sports festival in Asia ▪ **Recruited** and **Guided 10** Web executives and worked **collaboratively** by delegating chores and responsibilities
Initiatives	▪ Initiated a **Cross Platform App** with **Cloud Messaging** to send-in notifications of events with **Flutter** ▪ Revamped registration, **automated** it for registration of **2000+** students from **80+** colleges across nation ▪ Developed an online **MCQ Quizzing platform** with **1000+** participants across nation to promote sports culture ▪ **Angular** framework with **Bootstrap** for modularity; Website Optimization with Backend in **NodeJs** & **Firebase**
Impact	▪ Maneuvered a **130%** increase in reach of fest through ideation, development & execution of **online competitions**

EXTRA-CURRICULAR ACTIVITIES

Sports	▪ Actively played Badminton as CPA in freshman year; Bagged **1 position** in Badminton among all freshmen *2017* ▪ Secured **1 position** in Badminton at District level Twice; Participated in state level competitions *2014, 2015*
Social	▪ Organised **Blood donation camps** in campus in collabration with BloodConnect and Raktarpan *2018, 2019*