GARVIT KATARIA

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EDUCATION

Carnegie Mellon University, Pittsburgh   Pittsburgh, USA
Master in Information Systems Management   **2021-2022**

Vellore Institute of Technology, Vellore   Vellore, India
B.Tech. (Information Technology) | 9.27/10 CGPA   **2017 – 2021**
Received Dean's Merit Award 2018, 2019

SKILLS

- **Programming** – C/C++, Java, Python, JavaScript
- **Frameworks** – React, React Native, Flask
- **Database** – SQL, MongoDB
- **Misc** – Docker, Git

AWARDS AND ACHIEVEMENTS

Special Achievers Award and Merit Scholarship   **Sept 2020**
- Received special achievers award from the chancellor for exemplary co-curricular performance at various international events; Merit scholarship received for securing a position among top 10 students in the branch

HackOff v2.0 by MLH (Major League Hacking, Microsoft), Vellore, India   **Jan 2020**
- Won second prize of INR 50,000 for developing an application to improve prescription management and drug administration

Yale Hack'19, Connecticut, USA   **Oct 2019**
- Won the first prize of USD 1000 at Yale Hack for developing a live customer feedback analysis platform for airlines using ELK stack (Elasticsearch, Logstash, and Kibana)

INTERNSHIP EXPERIENCE

Noida Metro Rail Corporation   Delhi, India
Data Analyst Intern, Delhi-NCR Metro Rail Services   **Sept – Dec 2020**
- Analyzed CCTV footage at metro stations using neural networks and artificial intelligence to gather data about whether social distancing was being followed, percentage of people wearing masks, and number of people inside the station premises
- Workedwith Python and C++ to develop an end-to-end pipeline; Used Machine Learning API's to filter and select clips, where social distancing is not being adhered, from the longer video feed

Defence Research and Development Organisation   Delhi, India
IT Intern, Military Research and Development   **Jun – Jul 2019**
- Surveyed, interviewed, and brainstormed to identify and list the requirements for developing an online portal for hiring interns, managing records, analyzing data, and automating tasks; Reduced manpower requirement from 3 people to 1
- Automated the process of generating monthly consolidated statistics, provisional allotment letters, permission slips and certificates which were previously done manually; Reduced over 30 hours of manual work every month

Bitgrit Inc.   Delhi, India
Web Development Intern, AI Competition & Recruiting Platform for Data Scientists   **Apr – Jun 2019**
- Worked as a full-stack web developer for development of a competition platform for listing ongoing competitions for data scientists where users can form teams, develop a solution, and compete for the prizes
- Made registration, login, profile, and live competition sections; Worked with React and Django, building an end-to-end pipeline, and optimized SQL queries, augmenting search time by 10%

SELECTED PROJECTS

The Smart Pill Bottle: A Pill Management System Based on Touch-point Technology ([Video Link](#))   **Nov – Mar 2020**
Aim: To identify the pill bottle by simply placing it on the phone's touch screen
- Designed conductive-ink stickers (imitating human finger-like touches) creating a unique pattern on the touch screen
- Developed a cross-platform application to decode the pattern and ascertain user medicine name, dosage, number of pills remaining, whether the particular pill has to be taken or not; Achieved a System Usability Scale score of 85.94 for 30 subjects
- Built using JavaScript, React and Google Speech-to-Text API and designed with Material UI

VITspot - Multiutility Applications For VIT Students   **Dec 2018 – Apr 2019**
Aim: To solve the problem of finding commuting companions, study materials and roommates
- Built a cab sharing module for an in-school app where students can mention their travelling preferences and find an ideal match to share a ride
- Created the app using React Native Framework for front-end, GraphQL for querying, Amazon Web Services for deployment, and MongoDB database
- Started as a project for the course Mobile Application Development; 10000+ downloads on the PlayStore currently

EXTRA-CURRICULAR ACTIVITIES

Outreach Head, IETE-ISF Chapter   **Jan 2018 – Dec 2020**
- Gave an 8-hour workshop on Augmented Reality attended by over 250 students from various colleges in South India
- Collaborated with MLH (Major League Hacking) and organized a 36-hour hackathon with 250 participants
- Managed Synergy – a tech symposium comprising of over seven workshops and participation of 1500+ students in total.
- Hosted 20 classroom sessions on trending technologies over the course of two years