

GARVIT KATARIA

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA

December 2022

Master of Information Systems Management

Current Coursework: Object Oriented Programming in Java, Database Management, Agile Methods

Vellore Institute of Technology, Vellore, India

July 2021

Bachelor of Technology in Information Technology

GPA: 4.00/4.00

Relevant Coursework: Data Structures, Software Engineering, Machine Learning, Software Project Management

SKILLS

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

PROJECTS

The Smart Pill Bottle: Detect Pill Bottle using Touch Screen's Capacitance

November 2019 – March 2020

Aim: To identify the pill bottle by simply placing it on the phone's touch screen

- Engineered conductive-ink stickers (imitating human finger-like touches) to create 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
- Received funding from National Taiwan University and achieved a System Usability Scale score of 85.94 for 30 subjects
- Built using JavaScript, React, Google Speech-to-Text API, Node.js and designed with Material UI

VITspot - Multiutility Applications For VIT Students

December 2018 – April 2019

Aim: To solve the problem of finding commuting companions, study materials and roommates

- Implemented 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 Mobile Application Development course. Currently having 10000+ downloads on the PlayStore

WORK EXPERIENCE

Noida Metro Rail Corporation

Delhi, India

Data Analyst Intern, Delhi-NCR Metro Rail Services

September – December 2020

- Analyzed CCTV footage at metro stations using OpenCV to gather data about whether social distancing was being followed, percentage of people wearing masks, and number of people inside the station premises
- Performed exploratory data analysis to locate hotspots, identify location-time patterns and plan spaced commuting, reducing staggering of crowds by 23%

Defence Research and Development Organisation

Delhi, India

IT Intern, Military Research and Development

June – July 2019

- Surveyed, interviewed, and collaborated with stakeholders to list the requirements for developing an online portal for hiring interns, managing records, and analyzing data
- Reduced 30 hours of manual work every month by optimising flow of information and automating the process of generating monthly consolidated statistics, provisional allotment letters, which were previously done manually

Bitgrit Inc.

Delhi, India

Web Development Intern, AI Competition & Recruiting Platform for Data Scientists

April – June 2019

- Collaborated with team in Japan to develop a full stack competition platform following Scrum methodology using React and Django for listing data science competitions where users can form teams, devise a solution, and compete for prizes
- Created 10+ screens like registration, login, profile and live competition and optimized SQL queries, augmenting search time by 10%

LEADERSHIP AND AWARDS

- **Outreach Head, IETE-ISF**, Headed Synergy – a tech symposium with participation of 1500+ students **December 2020**
- **Dean's Merit List '18, '19 & Recipient of Special Achiever Prize '19, '20** **November 2020**
- **HackOff, Major League Hacking Asia-Pacific** – Finished Second among 300 students **January 2020**
- **YHack - Yale University, New Haven** – Stood First in JetBlue airline track among 120+ selected teams **October 2019**