**VISHAL VANAM**

Manhattan, NY | (646) 732-9386 | vanam.vishal12@gmail.com | LinkedIn

SUMMARY

Software Developer with 2 years of experience in solving technical problems by writing clean and efficient code.

SKILLS

Python, Django, NodeJS, C & C++, SQL, CI/CD, JavaScript, Big Data (Hadoop, Spark), Cloud (AWS, GCP)

EXPERIENCE

**Research Data Engineerin Intern** Pittsburgh, USA Robert **Bosch** R&D May 2022 – Aug 2022 ● Developed **Traffic Conflicts - Detection and Evaluation** feature which uses data from AI-empowered Bosch Cameras. ● This feature received confident results(accuracy > 90%) running in real-time and was added to the production pipeline for integration with Bosch Security services for AI-empowered Cameras

**Teaching Fellow** New York City, USA *New York University - Leonard N. Stern School of Business***,** New York, USA Jan 2021 – May 2022 ● Worked with professors designing the course material, grading assignments and projects for ‘Big Data’, ‘Projects in Data

Science’, ‘IT in Business and Society’ for Graduate students, and ‘Business Communication’ for MBA students of class sizes more than 30

**Software Engineer** Dubai, UAE *Varal Group DMCC* Aug 2020 – Dec 2020 ● Designed and built core components such as invoice generation, notification service, and integration of the company products on G Suite

● Built CI/CD pipeline to deploy the application to the Google Cloud Platform

**Associate Data Scientist** Bangalore, INDIA *Datakalp* May 2019 – July 2020 ● Delivered **Invoice Automation OCR** project(company’s first revenue-generating project) successfully. ● Started as a service-centric project, initially, with many positive results(higher confidence[**92%**] of extracted structured data and accuracy of **95%**), was converted to a Product(**ScanXT**) with the help of a few interns under my supervision. ● Used the **Tesseract OCR Engine** and trained model to increase extracted text efficiency to **90%** ● Part of other Computer Vision projects: Face Recognition(one of the design members), People Tracker(analysis and benchmarking using different traditional models)

EDUCATION

**New York University, Courant** and **Stern** School New York City, USA *Master of Science*, *Information Systems*- **CGPA: 3.50** Aug 2022 ● *Related Coursework:* Operating Systems, Database Systems, Big Data, Programming Languages, Cloud Computing

**Indian Institute of Information Technology** Guwahati, India *Bachelor of Technology*, *Computer Science and Engineering* May 2019

ACADEMIC PROJECTS

1. **Multi GPU Matrix Factorization** (Bachelors’ Thesis)- Advisor*: Prof. Dip Sankar* Aug 2018 – May 2019 ● Dimensionality reduction project implemented using GNOME dataset and benchmarked on 4 Tesla K80 GPUs ● The model filtered the time of convergence deviations caused using multiple GPUs, and to what extent the message

transfer b/w GPU-GPUs and GPU-CPUs(the latter caused about 10 times more delay than the former) affect the computational time.

2. **College Gateway** - Advisor*: Prof. Ferdous Ahmed* Jan 2018 – May 2018 ● University predictor developed using Django and POSTgre, worked well at peak requests(more than 1000) ● Part of Software Engineering course team(2) project, and was developed using Agile process, and deployed on AWS

3. ***Network Topology Search*** *for Wireless Sensor Networks(WSNs) -* Advisor*: Prof. Rakesh Matam* Jan 2018 – May 2018 ● Used Trilateration Localization algorithm and integrated with random forest to find physical and logical topology. This new approach beat the traditional Trilateration Localization algorithm by **2%**.

4. **Census Database System** *-* Advisor*: Prof. Gautam Barua* Jan 2017 – May 2017 ● Census computational feedback system using **WAMP** stack (Windows, Apache, MySQL, PHP) ● Awarded the best project in the class because of the database efficiency, handled well on peak requests(more than 500)

ACADEMIC ACHIEVEMENTS AND LEADERSHIP EXPERIENCE

*Events Coordinator,* **BUGS** (NYU Opensource) Jan 2021 – Present *Graduate Employability Workshop,* Scored 99.1 percentile in Computer Science(national-level) March 2019 Alumni of iB Hubs Summer Startup School representing startup nDimensions as a Technical Lead Summer’2017 JEE Mains(National Level Engineering Exam): Scored 99.9 percentile(1.6 million students appeared) May 2015