SANCHIT SAHAY

New York University

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ACADEMIC INTERESTS

Distributed Systems, Virtualization & Cloud, Programming Languages, Software Engineering

EDUCATION

New York University - Tandon School of Engineering *2024-2026*
Master of Science - Computer Science — GPA: 4.0/4.0
Cloud Computing and Big Data, Application Security, Algorithmic Machine Learning and Data Science

Manipal Institute of Technology *2018-2022*
Bachelor of Technology - Information Technology — Cumulative GPA: 9.10/10
Minor - Big Data Analysis
Distributed Systems, Cloud Computing, Algorithms, Natural Computing, Software Reliability
Big Data Specialization, University of California San Diego.

EXPERIENCE

Commvault Systems — January 2022 - August 2024
Engineer, *Virtual Server Agent Team* — *Python, .NET*

· Developed software for infrastructural data protection for private cloud deployed using VMware and Huawei hypervisors. Extended coverage for new vendor features.
· Extended automation support for internal test suites and Commvault's Python SDK.
· Developed Commvault's plugin for VMware Cloud Director to streamline data protection.

LegalAI — April 2021 - December 2021
Full-Stack & DevOps Intern — *Node.js, React, Google Cloud Platform*

· Built end-to-end system to streamline the process for drafting legal claims and estimating settlements.
· Developed hosting solutions for microservices on GCP, and designed frontend portals using React.
· Automated the deployment process of NLP models and built tools for hosting services locally and connecting them to CI-CD pipelines.

PROJECTS

Talk2Data — 2024
Python, AWS — *https://github.com/Sitanshuk/Talk2Doc*

· A centralized platform to simplify college students' interaction with academic and professional data. Integrated multiple sources (e.g., Notion, Gmail) for efficient data organization and enhanced accessibility. Utilized Retrieval-Augmented Generation (RAG) and personalized Large Language Models (LLMs) for intelligent data handling.

MTA Ridership Prediction — 2024
Python — *https://github.com/stupendoussuperpowers/mta-ridership*

· Used various machine learning models to predict subway ridership in New York based on several factors such as temporal features and fare class categories. Also implemented KShape clustering for better analysing ridership patterns based on neighbourhood.

trunk
2024
Rust   *github.com/stupendoussuperpowers/trunk*

· Command-line utility to replicate POSIX tail while allowing one to filter output for live tail-follows. Helpful for monitoring live logs.

Cargo
2024
Rust   *github.com/stupendoussuperpowers/cargo*

· Open source contributor to Rust's package manager - Cargo.

Hawkeye
2020
GoLang, MongoDB, Redis, Docker   *github.com/swadhinroutray/hawkeye-2020/*

· Bi-annual Online Scavenger hunt for Manipal's Official Computer Science Club with global participation of roughly 1300. Built with Go, React, and MongoDB. Deployed using Docker.

Google App Engine Replica
2021
Node.js, Typescript   *github.com/stupendoussuperpowers/gilbert*

· DevOps tool which runs Google App Engine compatible microservices in a development environment. Streamlines the development-testing-deployment process.

POSITIONS OF RESPONSIBILITY

Project Head - IECSE
2020-'21
Official Computer Science Club of Manipal   *Manipal Institute of Technology*

Selected as the Project Head in the club's Managing Board comprising of 15 members. Oversaw a total member pool of >1000 students. Responsible for developing and maintaining various web and mobile based applications.

Student Mentor
2019-'20
Problem Solving Using Computers   *Manipal Institute of Technology*

Selected as a Student Mentor for the course *Problem Solving Using Computers* - an introductory programming course in C and MATLAB. Delivered supplemental material for students.

President - Literary, Debate, and Quiz Club
2020-'21
LDQ - Official Literary, Debate and Quiz Club   *Manipal Institute of Technology*

Headed the club with a total member pool of ¿300 students. Trained teams for international competitions. Managed the club's social media channels, designed posters (Figma and the Adobe Suite).

TEST SCORES

GRE
Total Score - 332/340

Quantitative - 170/170, Verbal - 162/170, Analytical Writing - 4.5/6

TOEFL
Total Score - 115/120

Reading - 30, Listening - 29, Speaking - 29, Writing - 27

TECHNICAL SKILLS

Rust, Python, Node.js, React, Flutter, Android SDK (Java+Kotlin),Java, GoLang, MSSQL, MongoDB, Postgres, Google Cloud Platform, Amazon Web Services, VMware vCenter, VMware Cloud Director, Hadoop, Apache, Spark, neo4j, Cypher, Wireshark, C# (.NET), PyTorch, Keras, Numpy, Pandas