VINEET KALGHATGI

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EDUCATION

University at Buffalo, The State University of New York — **Buffalo, NY**
Master of Science in Computer Science, GPA : **3.7/4** — Aug 2022 - Dec 2023
Coursework: Blockchain, Pattern Recognition, Analysis of Algorithms, Fundamentals of Programming languages, Data Intensive Computing, Data models and query language, Project Management, Information Retrieval

Dr. Ambedkar Institute of Technology — **Bengaluru, India**
Bachelor of Engineering in Computer Science and Engineering, GPA : **8.84/10** — Aug 2017 - Jul 2021

- Head of the Web Dev club

SKILLS

Languages: Python, Javascript, Java, Dart, C, C++, Bash
Web Technologies: React.js, Angular, Node.js, Next.js, Django, Flask, Flutter
Database: SQL, MongoDB
Technologies/OS: Hadoop, Spark, Docker, Git, Linux, Google Cloud Platform, AWS

EXPERIENCE

Tata Consultancy Services — **Bengaluru, India**
System Engineer — Aug 2021 - Jul 2022

- Managed operations of CA PAM, a privileged access manager, for a leading Swiss bank, resulting in smooth operations for over 4000 clients
- Collaborated in debugging errors occurred during server onboardings. Drafted reports with the help of **SQL**
- Delivered mentorship to colleagues, imparting expertise in server integration workflows, **Bash scripts**, and **Python scripts**, achieving enhanced comprehension and skill proficiency
- Created a **Python script** for optimizing the onboarding process of HPiLO servers in bulk, leading to an outstanding 85% reduction in processing times

Tata Consultancy Services — **Bengaluru, India**
Software developer intern — Jul 2020 - Aug 2020

- Streamlined testing processes by developing 2 applications: a file parser in **Java**, and a web app to aid mobile device testing
- Externalized data from Cucumber feature files with **Java**, to a **MongoDB** Database resulting in centralized data storage
- Built a dashboard by means of **Angular**, **Node.js** and **Express.js** to input/modify/delete test data for the file parser, achieving intuitive CRUD operations
- Crafted a mobile automation tool complete with a UI, using **Flask (Python)** and **Appium**, leading to improved mobile app testing

Socort Siblings Technology Private Limited — **Bengaluru, India**
Android Developer intern — Mar 2020 - Apr 2020

- Played an integral role in developing 2 **Android applications** using **Java**
- Enhanced functionality in both customer and vendor applications by implementing multiple key features and seamlessly integrating various API endpoints
- Upgraded the user authentication of the app by leveraging **Google's Firebase APIs**, yielding a significant improvement in authentication security

PROJECTS

Restaurant E-menu Link — Jan 2022 - Present

- A cloud-based online menu management system for restaurants programmed using **Next.js**, **Node.js**, **Express.js** and **MongoDB**, allowing restaurant owners to easily create, edit, and manage menus, accessible to customers via a QR code
- Designed a password based login system leveraging **Google Firebase authentication**

Information Retrieval Chat-Bot — Nov 2023 - Dec 2023

- A chat-bot built by indexing 15 novels for a total of over 49000 paragraphs and using it to answer questions on the novels
- Led the effort in developing the backend pipeline on **Google Cloud Platform** which included setting up 5 microservices and communicating between them via RESTful APIs
- Implemented UI features with **React.js** and set up a prompt classifier service using **Python (Flask**) in the backend

Inverted Index Search Engine — Oct 2023 - Nov 2023

- A search engine written in **Python (Flask)** that leverages an inverted index to rank documents based on tf-idf scores
- Implemented **information retrieval** techniques to index a corpus of 5000 documents achieving sub 50 ms query times
- Hosted the **Flask** application using **Gunicorn** on the **Google cloud platform**

Data Volume Reduction Link — Mar 2023- May 2023

- Spearheaded development of a cloud-based application, envisioned in collaboration with **IBM** and the **Enterprise Neurosystem Group** filtering datasets through metadata of individual files. Developed using **Django (Python)**, **Next.js (React.js)**, and hosted on **IBM Cloud**
- Constructed and documented critical backend modules responsible for metadata extraction and parsing
- Optimized processing times by parallelizing file downloads from data provider source