

VINEET KALGHATGI

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EDUCATION

University at Buffalo, The State University of New York

Master of Science in Computer Science, GPA : **3.6/4**

Buffalo, NY

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

Bachelor of Engineering in Computer Science and Engineering, GPA : **8.84/10**

Bengaluru, India

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

System Engineer

Bengaluru, India

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

Software developer intern

Bengaluru, India

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

Android Developer intern

Bengaluru, India

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