

ANIKET SINGH

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EDUCATION

Masters of Science, Computer Science - University of Colorado, Boulder | GPA: 3.8/4 **Present – May 2026**
Relevant Coursework: Advanced Data Structures & Algorithms, Data Mining, Natural Language Preprocessing, Distributed Computing, Machine Learning, Datacenter Scale Computing, Deep Learning, DBMS, Linear Programming
Bachelor of Engineering, Information Technology - University of Mumbai | GPA: 9.49/10 **Aug 2018 – May 2022**

SKILLS

Programming: Java, Python, C++, C, Golang, GraphQL, Unix, Linux | **ML & AI:** PyTorch, sci-kit, Pandas, TensorFlow, GPT, CNNs, Transformer Models, GenAI, Reinforcement Learning | **Cloud/DevOps:** AWS, GCP, Terraform, Docker, Kubernetes, Linux/Unix, Kafka | **Frameworks:** SpringBoot, ReactJS, NodeJS, NextJS, Django, Flask | **Web Development:** HTML5, CSS3, Bootstrap, JavaScript, AJAX | **Databases:** MySQL, MongoDB, RDS, Oracle, NoSQL, PostgreSQL | **Applications and Tools:** GitLab, Jenkins, Jira, GitHub, IntelliJ, Agile

WORK EXPERIENCE

Software Engineer – Institute of Cognitive Science **Sep 2024 – Present**

- Developing an application for tutors, **leveraging LLMs and GenAI** to enhance feedback generation with **73%** accuracy using **Tensorflow and PyTorch**.
- Working on **LSTMs, BERT, Distil-BERT with LLMs** on video transcript data to analyze and suggest tutoring feedback.
- Spearheading **infrastructure separation** using Terraform, establishing isolated open-source ecosystems for core and ancillary components, facilitating scalability, modularity, and streamlined cloud-native deployments.

Software Engineer - J.P. Morgan Chase & Co. **Jun 2022 – Aug 2024**

- Lead the design and development of **8+** APIs using Java with employing **multi-threading** and MVP features which resulted in application modernization and scalable architecture enhancements serving **4.2 Million** customers in financial markets with low-latency along with designing Kafka MQs for **100k** messages for a single broker.
- Migrated and optimized **70+** ETL flows using Spark, deploying them to AWS cloud with **Terraform, ECS, EKS, and Lambda**. This resulted in a **53%** improvement in ETL code efficiency .
- Built GraphQL queries and subscriptions on Radix platform for Fund Asset Classes and Product strategies to streamline the onboarding of **7** clients to increase revenue by **8%**, along with migrating queries from EDPi to Radix for customers.

Software Development Engineer – Rotaract District 3141 **Jan 22 – Jun 22**

- Spearheaded a team of 3 to develop a platform on which the organization shifted their previous working system with over **16k+ live** user base and majorly led back-end activities.
- Developed REST APIs for **27** interdependent modules and integrated them with third-party APIs and deployed on Digital Ocean platform, along with using Git for version control.
- Wrote reusable code which contributed to **40%** of the entire codebase and increased the TTFB efficiency by **34%**.

Software Developer Intern - Furtados School of Music **Apr 2021 - Jun 2021**

- Orchestrated and maintained a platform for teaching and learning music online with a daily active user base of **1,50,000+** students, **200+** schools and employees using **C++ as backend**.
- Designed, implemented and tested APIs based on MVC architecture for admin staff, teachers and learners via which they could perform daily activities on their end and resolved bugs in production.
- Focusing on the back-end, developed numerous modules which were used to store and maintain large amounts of data and reduced the manual workload of the finance team by **45%** by **automating** sheet transactions by reusable code.

PROJECT


R-APP | NextJS, NodeJS, Digital Ocean, MongoDB, Linux, GitHub

- Developed a scalable web application using Next.js and the MERN stack with **3 core modules** and over 27 dynamic features, efficiently managing data for **16,000+** active users with a **97.3% uptime**.
- Integrated a live calendar system, interactive social media feed, and real-time reporting dashboards using Next.js and Chart.js, increasing user engagement by 40% and streamlining event bookings.
- Implemented Docker containerization and automated deployment pipelines with GitHub Actions, reducing deployment time by **53%** and ensuring continuous integration and delivery across production environments.

CU Connect | Golang, gRPC, GCP, ReactJS, Kubernetes, Docker, Jenkins

- Engineered a scalable and highly available application using multiple **distributed back-end services & REST APIs** using Dockerized Go microservices and gRPC requests for handling **10k concurrent user requests**.
- Optimized data storage and retrieval by integrating **AWS S3** and **MongoDB**, enabling secure management of over **50,000 user profiles** and **100GB** of user-uploaded files with **99.9% uptime**.
- Implemented a **MapReduce-based recommendation system** that processed query data at **800 request throughput** improving suggestion accuracy by **25%** and reducing latency in user recommendations by **30%**.

CERTIFICATIONS & CO-CURRICULAR ACTIVITIES

- NPTEL - Java (Elite + Silver Medalist), 3x Python certified by IIT-KGP, UMich & Infosys.
- Python Specialization by Rice University & UMich, SQL for Data Science by UC Davis & University of Michigan
- AWS certified** Cloud Practitioner and **Terraform Associate** 
- Top **4.2%** worldwide in December Long Challenge: Codechef 2020, 1741 Rating, HackerRank 5* in Python