

WORK EXPERIENCE

TomoClub (Contract Based), San Francisco, California, United States

Sep 2023 - Dec 2023

- Designed and developed backend infrastructure for Tomoclub's latest service.
- Use serverless tech stack like **AWS Lambda**, **S3**, and **API Gateway**.
- Ensured seamless data management, security, and optimal performance.
- Collaborated with clients to understand requirements and delivered tailored backend solutions.
- Contributed to the project's success by providing a scalable and efficient backend architecture.

Software Developer Intern - Planet Spark | [Certificate](#)

Jul 2023 - Aug 2023

- Contributed to full-stack development, implementing features and enhancing user interface.
- Gained practical experience in the software development life cycle during internship at Planet Spark.

PROJECTS

File Sharing System | <http://13.50.73.200/> | [GitRepo](#)

Nov 2023 - Dec 2023

- Developed user-friendly interface (**HTML**, **CSS**, **Jinja**) for seamless file-sharing.
- Implemented **Flask** backend for server-side logic and **RESTful APIs**.
- Integrated **PostgreSQL** for efficient data storage and retrieval.
- Enhanced security with **encryption** and **email verification**.
- Hosted on **AWS EC2**, utilizing **Docker-Compose** for consistent deployment.

Music Web App | <http://sangeet.uk.to> | [GitRepo](#)

Oct 2023 - Nov 2023

- Designed and developed a music recommendation web app with **Flask**, **MySQL**, **HTML**, **CSS**, and **Jinja**.
- Deployed on **AWS EC2** with **Nginx** and **Gunicorn** for optimal performance, using **Amazon RDS** for **MySQL**.
- Improved accessibility and professionalism with a Custom Domain Name for a branded user experience.
- Established **frontend-backend** communication via a **REST API**, ensuring scalability and clear separation of concerns.
- Implemented advanced recommendation algorithms for personalized music experiences, enhancing user engagement.

Deploy 2-Tier WebApp | [Demo](#) | [GitRepo](#)

Jan 2024

- Used **Docker** and **Docker-Compose** to containerize the application and pushed images to **DockerHub** Repository for versioning.
- Automated the setup of a **Kubernetes** cluster using **Kubeadm** and later implemented **AWS EKS** with **eksctl** to ensure fault tolerance.
- Ensured **mult-node cluster** setup for high-availability and deployment using Load Balancer.
- Improved scalability of the application and reduce downtime by **60%** using AWS Managed **Elastic Kubernetes Service(EKS)**.

SKILLS

EC2 | Lambda | Api-Gateway | RDS | S3 | IAM | Flask | Jinja | Pandas | Numpy | Cloud
MySQL | NoSQL | PostgresQL | MongoDB | SQLite | C++ | Python | HTML | CSS | Bootstrap
Kubernetes | Kubeadm | Helm | Docker | Jenkins | SQL | Git/GitHub | Canva | Figma

EDUCATION

GD Goenka University, Gurgaon | **8.82** CGPA
-B.Tech in Computer Science & Engineering [2020-2024]

G.B.S Public School, Saraswati Nagar | **93.2** %
-Intermediate with PCM | [Certificate](#)

ACHIEVEMENTS

- Played **Chess** Twice at state level [2019].
[Certificate](#)
- Top 2%** in National Data Mining Exam [2023].
[Certificate](#)