Ayush Arora

📞 (415) 654-6586   📍 1540A Anza St, San Francisco, California 94118   ✉ aarora7@dons.usfca.edu

🌐 ayusharora.me   in https://www.linkedin.com/in/arora-ayush   ⓞ @aroraayush

EDUCATION

- MS Computer Science, University of San Francisco, CA, US (**GPA: 3.71/4**)   **Expected – May 2021**
- BS Computer Science, Manav Rachna Intl. University, Haryana, India   **May 2016**

TECHNICAL SKILLS

Core Languages: Java, JavaScript, Python, C, TypeScript, Terraform

Back-end Tools: NodeJS, Flask, Git, Redis, Celery, Kafka, Zookeeper, Docker, Kubernetes, Spark

Database & Warehouse: MySQL, Postgres, MongoDB, ElasticSearch, Google BigQuery, RDS

Serverless Tools: Firebase, Google Cloud Dataflow, Google BigQuery, AWS Elasticache (Redis)

PROFESSIONAL EXPERIENCE

Cloud Infrastructure Intern | Spillbox Inc., Cupertino, California, USA   **Jun 2020 – Aug 2020**

- Implemented Distributed Lock Manager with C for clustered NFS in hybrid cloud with bursting capabilities, leading to 10% throughput increase in benchmark; Containerized environment with Docker & Docker Swarm
- Orchestrated infrastructure provisioning with Terraform to eliminate the risk of configuration drift

Software Developer | Roadcast Tech. Solutions Pvt. Ltd, New Delhi   **Jul 2018 – Jul 2019**

- Designed & developed highly robust APIs & microservices to ingest data of 1M+ trackers & store across multiple data stores with efficient testing & load balancing; Developed In-Memory Data Caching with Redis for quick storage & retrieval of trackers' event data for real-time reports & visualization
- Implemented high throughput task queue with RabbitMQ for ride hailing system improving order assignment efficiency by a factor of 10; Created server health check services for infra. monitoring to ensure high availability

Full Stack Developer | Simba Logistics Private Limited, New Delhi   **Nov 2016 – Jun 2017**

- Developed scalable order management queue to handle operations on data of millions of package deliveries; Created components of operations team panel, improving ops. team effectiveness in query resolution up to 15%
- Incorporated TDD in SDLC, reducing development time by 20% with increased code quality; Implemented CD pipeline with StriderCD/NodeJS to improve deploy efficiency, leading to ZERO-downtime deployment

Summer Intern | New Delhi Municipal Council, New Delhi, India   **Jun 2015 – Jul 2015**

- Created web application to digitize existing process of reporting Birth and Mortality data of people, integrated with DMS, leading to 40% cost reduction in manpower along with benefit of faster document search & retrieval
- Aggregated & analyzed data in scalable database to generate insights; Currently, used by millions everyday

COURSE PROJECTS

Distributed File System: Designing & building POSIX compatible Distributed FS to support multiple storage nodes with Java/Netty, Protocol Buffers, providing Probabilistic Routing and Fault Tolerance, for managing Big Data

Adtech Logs Data Pipeline (ETL) – Implemented Batch processing Pipeline with Java & Dataflow. Wrangled large amounts of logs, analyzed with analytical SQL queries on BigQuery & did prediction with TensorFlow model

Chord for DHT - Implemented lookup service in Distributed Hash Table, using C language, with Chord protocol to increase the lookup efficiency while reducing memory usage; Did Consistent Hashing to reduce search space