Ajinkya Nawarkar

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Skills

- Python | C++ | Scala | Oracle | COMDB2 | MYSQL | MongoDB | Git | JavaScript
- AWS | GCP | Apache: Spark, Iceberg, Kafka, Flink, Parquet | Trino | Redis | Airflow | Docker | Kubernetes | CI/CD | Jenkins | Lambda
- Microservices | Distributed Systems | Cloud Computing | Backend | English, Hindi, Marathi – *All professional proficiency or above*

Experience

Software Engineer **Bloomberg** *NYC, NY, USA* **02/2020 - 06/2023**

- Led the design and development of multiple enterprise-level microservice applications of the Enterprise Data Content group, driving $22 million of annual revenue using open-source and proprietary technologies of Apache: Spark, Iceberg, Kafka; Redis, Trino, and Comdb2.
- Led the development of several products E2E, from identifying system requirements, collaborating with stakeholders, and advertising design to software implementation, engineering delegation, testing, and configuring metrics, alarms, monitors, and dashboards.
- *Engineering lead* of Enterprise DataLake (Lacus) team's offerings that serve enterprise clients:
  (1) *The Data Transformation platform (LCT)* serving several teams, delivering 15+ data products from raw complex data daily (2021)
      (a) Led from ground up - Aggregated requirements from stakeholders for each product to generalize and develop the system design.
      (b) Engineered the foundational infrastructure (CI/CD, DBs, ETL pipeline) -> Delegated rotational product features to 4 other engineers.
      (c) Conducted 1-1 bi-weekly meetings with engineers, stakeholders, and product managers for initial product launches.
      (d) Collaborated with cross-platform PMs and their engineering teams to drive the product initiation on *LCT* platform.
      (e) Advertised platform via presentations to enterprise-wide TL meetings and individual approaches to PMs.
  (2) *The Data Meshing platform (Datapacks)* merging 1000s of existing offered datasets to produce new data products (2022-2023).
- Designed and implemented scalable products and APIs in python and scala with enriched telemetry and in-depth testing solving complex data issues for the data lake. The architecture that is ingesting billions of data points every day across 10,000+ datasets.
- Replicated and set up a full-blown Beta environment for all Lacus products. Improved the team's confidence and velocity in prod releases.
- Coached 7+ new engineers on the team throughout tenure. Oversaw onboarding and knowledge transfers alongside daily assistance.

Software Engineer, GTA **Purdue University** *WL, IN, USA* **09/2023 - Present**

- Managing data warehousing and infrastructure for 16 engineering schools.
- Redesigned and refactored legacy code base to enterprise software standards increasing development efficiency and reducing query and times by 50%. Introduced distributed APIs per data source, test suite, modularization, alarms, logging, safer database operation, etc.
- Managing and mentoring a Graduate TA within the team.

Software Engineer, Intern **Qualcomm** *San Diego, CA, USA* **05/2019 - 07/2019**

- Implemented exclusive monitors on proprietary compute elements (CPU, CDSP) to enable global synchronization.
- Implemented user space spin locks using exclusive load/store atomic operations in C to improve software stack in Snapdragon processors.

Machine Learning SWE, Intern **Adtran** *Huntsville, AL, USA* **05/2018 - 07/2018**

- Developed a python API for VDSL data extraction and analysis needed for self-healing network research using Python and Selenium.
- Automated guided performance benchmarks for anomaly detection in fiber optic networks using various ML techniques.

Software Engineer, Intern **Adtran** *Huntsville, AL, USA* **01/2018 - 04/2018**

- Delivered a CLI and network interface for a service provider endpoint of Ethernet networks in C++ using YANG over NETCONF.
- Grew and optimized team's DevOps practices - CI/CD, unit/integration testing, Jenkins pipeline e2e testing, and deployment.

Education

Master of Science (Computer Science) **Purdue University** *WL, IN, USA* **08/2023 - 05/2025**

Bachelor of Science (Honors) **Mississippi State University** *Starkville, MS, USA* **08/2015 - 12/2019**

- **Major:** Computer Science, **Minor:** Mathematics
- **CGPA: 3.92 / 4.0**

Projects

- **I-SAFE:** Developed an Android app to provide real-time safety awareness at any given time and location using Google Maps python API.
- **TRASHTAG:** Created a mobile reward strategy game promoting trash clean-up efforts (Most Event Driven Hackathon Award).
- **FINVOICE:** Integrated ML SVR algorithm with an Alexa device to help manage finance budget for the blind.
- **MYOCrane:** Developed an API using MYO Armband to manipulate a mini crane using hand gestures wirelessly (1st place - Hackathon).