# Rajat Pawar

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## EDUCATION

**M.S. Computer Science**                                                                                          *Expected May 2025*
Arizona State University, Tempe, AZ                                                                                          3.89 GPA
Relevant Courses: Foundation of Algorithms, Multimedia and Web Databases, Distributed/Multiprocessor Operating System

**B.Tech. Information Technology; Financial Engineering Minor**                                                     *May 2020*
College of Engineering, Pune, India                                                                                          8.16 GPA
Relevant Courses: Data Structures and Algorithms, Database Management System, System Programming and Operating Systems, Network Analysis and Wireless Protocols

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript, C, C++ (STL), Ruby, Shell Script, SQL
**Frameworks:** Numpy, Pandas, Matplotlib, Flask, Node JS, Ruby on Rails, Spring Boot React, gRPC, Jinja
**Databases, and OS:** PostgreSQL, MySQL, MongoDB, Redis, PresoDB, Windows, MacOS, Linux/Unix
**Tools/Platforms**: Git, GitHub, Kafka, Kafka Connect, Spark, Airflow, DBT, Snowflake, Kubernetes, AWS, Elastic Stack (ELK), Grafana, Docker, Redash, Metabase, Superset, ActiveMQ, Sidekiq

## PROFESSIONAL EXPERIENCE

**Urban Company, Gurugram, India: Software Development Engineer 2 (Data Platform)**                *Jan 2023 - Jul 2023*
- **Redash**: Migrated live Redash to latest version on **ECS** with query tag feature support for **Snowflake**, enabling cost tracking per user, ensuring **0** downtime, and configured **ELK** for logging
- **Kafka Connector**: Setup Kafka connect cluster basis frequency of events on **EC2**, deployed custom **SMT** to handle conflicts due to high-frequency updates(**<1ms**), exported metric to **Grafana**, and configured **ELK** for logging. Increased availability to **99.99%**

**OYO Rooms, Gurugram, India:  Software Development Engineer 1**                                       *Sept 2020 - Jan 2023*
- Migrated various APIs from **RoR** to Spring Boot, reduced latency by a factor of **10**(by implementing local cache, multithreading, and re-architecting DB schema). Migrated Scheduler to **Spring Boot** and configured **PrestoDB**, **Quartz**, **HikariCP**, and **Thymeleaf**
- Produced Reconciliation summary and booking report for every wallet transaction to Patron for **50K+ live properties**, ensuring accurate financial oversight and transparency for patrons
- Created a dynamic dashboard for efficient invoice management, equipped with flexible filtering options and seamless pagination support, streamlining accessibility, and enhancing user experience
- Developed robust **PostgreSQL** and **Presto** queries to capture, transform, and conduct comprehensive comparisons between processed data and raw booking records, facilitating data-integrity

**Siemens PLM Software, Pune: Software Development Engineer Intern**                                   *May 2019 - Jul 2019*
- Developed a feature that enabled users to view different view types in structure in Active Workspace (AWS) that serves as one of clients to Team Centre Software (A modern, adaptable product lifecycle management (PLM) system)

## PROJECTS

**ELT Data pipeline,** *Personal Project*                                                                       *Summer 2023*
- Designed data pipeline for event ingestion using **CDC** with **Kafka Connect**. Employed **Spark** batch processing to extract data from **Kafka**, transferring it to data lake(**S3**), and subsequently processing and storing it in a data warehouse (**Snowflake**)

**Distributed Banking System,** *Class Project*                                                                  *Fall 2023*
- Implemented **gRPC**-based distributed banking system with **Lamport logical clock** and **read your writes consistency model** in **Python**. Ensured consistent communication and data consistency for deposits, withdrawals, and balance inquiries operations on shared accounts

**KNN image retrieval,** *Class Project*                                                                         *Fall 2023*
- Designed a K-similar image retrieval system **using HOG, Color Moments**, and **Resnet50** features on Caltech101 dataset. Employed **SVD, LDA, NMF, LR,** and **CP** decompositions & multimedia indexing techniques like **LSH** for optimized nearest neighbor searches

**Driver Distraction Identification,** *Class Project*                                                           *Spring 2020*
- Built identification system with **98.97%** accuracy that distinguishes safe driving from distracted driving and classifies it into different kinds of distractions