

Akshat Maheshwari

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SUMMARY

A software developer and researcher with 1 year of full-time and 3 internship experiences designing, building, and optimizing large-scale distributed systems using JAVA, SpringBoot, Javascript, Node.js, Python, Flask, C++, SQL, MongoDB, and REST APIs.

EXPERIENCE

GOLDMAN SACHS | SUMMER ANALYST

Dallas, TX | June 2022 - Aug 2022

- Architected and developed a workflow pipeline for notifications using Spring Boot, Kafka, MongoDB Change Streams, and REST APIs for enhancing user work efficiency.

UNIVERSITY OF TEXAS AT DALLAS | RESEARCH ASSISTANT

Dallas, TX | Jan 2022 – May 2022

- Working with Dr. Rishabh Iyer on Targeted Data Synthesis using active learning and GANs
- Working with Dr. Tien Nguyen on Neural Partial Program Analysis and generating Contextualized Embeddings for code changes.

OLA CABS | SOFTWARE DEVELOPMENT ENGINEER

Bengaluru, India | Sept 2020 – Aug 2021

- Worked in the Supply Onboarding-Inventory-Compliance team for creating and managing critical APIs and services using SpringBoot, Dropwizard, NodeJS, MySQL, and MongoDB which are being used by 10 Engineering teams
- Implemented Lazy Loading which optimized cache performance reducing the DB latency from 600ms to 230ms
- Designed and created an end-to-end flow for supply compliance, comprising cron jobs for data download and matching, rules for the rule engine, and a portal for the supply audit, resulting in a 7/7 score
- Built end-to-end flows for bike onboarding, one-click document submission using asynchronous multi-threaded pipeline, and unique encrypted tax id creation which boosted user experience and reduced costs by 20%
- Upgraded instrumentation by pushing data to in-house Kafka services and alerting in case of failures which helped in diagnosing and reducing errors by 15%

SUBTL.AI | RESEARCH ENGINEER INTERN

Hyderabad, India | Jun 2020 - Aug 2020

- Improved the accuracy of the multi-document retrieval and querying by 15% by changing the retrieval algorithm and the pipeline to refine the text extraction from PDF files using Python and Pytorch.

EDUCATION

THE UNIVERSITY OF TEXAS AT DALLAS

Dallas, TX | Expected May 2023

MASTER OF SCIENCE IN COMPUTER SCIENCE

GPA: 3.93

- **Computer Science Grader (Fall 2021):** Programming Fundamentals for Prof. Scott Dollinger
- **President:** UTD Graduates of Computer Science

IIIT HYDERABAD

Hyderabad, India | July 2016 – May 2020

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

GPA: 8.25/10 (Dean's List 2019-2020)

- **Teaching Assistant (Fall 2019):** Advanced Computer Networks for Prof. Shatrunjay Rawat
- **Teaching Assistant (Spring 2020):** Information Security Audit and Assurance for Prof. Shatrunjay Rawat

PROJECTS

WHATSAPP CAB BOOKING SYSTEM

PYTHON, SPEECH TO TEXT, WEB SCRAPING

Led a team of 4 people to build an end-to-end system for booking cabs using details provided by the user in the WhatsApp message (text or voice)

BITCOIN TRADING SYSTEM

PYTHON, FLASK, SQL, SQLALCHEMY

An online bitcoin trading system with user management, safe from SQL Injection attacks, and cronjob for a status update.

FILE SHARING SYSTEM

JAVA, RPC, DISTRIBUTED SYSTEM, COMPUTER NETWORKS

A distributed file-sharing system with file upload, download, user and group creation, and messaging functionalities.

TECHNICAL SKILLS

Languages: JAVA • C++ • Python • C • Javascript • SQL • Bash • HTML

Frameworks: SpringBoot • Node.js • Express.js • Dropwizard • Flask • Django • Keras

Utilities/Technologies: Git • Linux • MySQL • MongoDB • Pytorch • REST APIs • JSON