Saksham Mahajan

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EDUCATION

San Jose State University — Aug. 2022 – May 2024
Masters Of Science, Computer Engineering, GPA: 3.60/4.00 — *San Jose, CA*

Course Work: Data Structures and Algorithms in C++, System Software, Data Mining, Machine Learning, Enterprise SW Platforms, Artificial Intelligence and Data Engineering

Punjab Engineering College — Aug. 2017 – May 2021
Bachelors in Technology, Electrical Engineering, GPA: 8.32/10.00 — *Chandigarh, IND*

TECHNICAL SKILLS

Languages: C++, Java, Python, JavaScript, HTML, CSS
Frameworks: Spring Boot, Node JS, Java ASM
Tools/ Platforms: Git, Linux, Microsoft Azure, AWS, Xcode, Jira, Dockers

EXPERIENCE

Ernst & Young — Jun 2023 – Aug 2023
Intern - Technology — *Chicago, IL*

- Contributed to a successful migration of **Azure SQL Databases**, optimizing cloud infrastructure and benefiting over **10,000 users**
- Developed a Large Language Model feature for the GTP:IT platform using **Python**, automating tax return transactions and impacting more than **50,000 users**

American Express — May 2022 – Aug 2022
Engineer III — *Gurgaon, IND*

- Developed a **Java, Spring, React, and MongoDB**-powered internal tool, slashing audit times from month to **15 minutes** and bolstering organizational security by **60%** through user privilege management.
- Wrote multiple **API's** for the team which returned the extracted data from **MongoDB**.These API's made the system more feature rich and reducing manual processes by **85%**

Mediatek Technologies — Jul 2021 – Apr 2022
Software Developer — *Noida, IND*

- Developed and enhanced driver/kernel (Linux) for **Wi-Fi protocols** used in Access points and repeater networks
- Handled critical issues related to **WPA-3 wi-fi security** and data fetching algorithms from firmware
- Gained extensive knowledge of networking, **TCP/IP, LAN, WLAN, and kernel programming**

PROJECTS AND ACHIEVEMENTS

End to End ML Model Monitoring using Airflow and Dockers — Sept 2023 - Present

- Currently working on building an end-to-end pipeline to monitor any changes in the model's predictive power or data degradation

AWS ETL Data Pipeline in Python on YouTube Data — Jul 2023 - Sept 2023

- Architected and executed a dynamic data pipeline project, driving substantial improvements in data processing efficiency and analytics capabilities
- Leveraging **AWS S3 Data Lake and developing AWS Glue Spark ETL** Jobs not only streamlined data operations but also improved data-informed decision-making
- Integrated **Amazon SNS for real-time alerts, SparkSQL, Amazon Athena for advanced SQL queries, and QuickSight** for interactive BI dashboards,resulting in a **25%** faster data visualization process

Distributed File Storage System — Feb 2023 – May 2023

- Developed a distributed file storage solution utilizing **gRPC**, resulting in a **50%** improvement in data processing speed compared to SOAP Rest APIs
- Executed ETL operations on data, integrated advanced querying capabilities for efficient data retrieval,fortified fault tolerance using seamless rebalancing of the **ring topology architecture using Apache Zookeeper**