# Saksham Mahajan

+1-6692529681 | saksham.mahajan@sjsu.edu | linkedin.com/in/saksham-mahajan-11b227194 | Github: IOS Repository

## EDUCATION

**San Jose State University**                                            Graduating May 2024
*Masters Of Science, Computer Engineering, GPA: 3.70/4.00*                        *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, Operating Systems

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

## TECHNICAL SKILLS

**Application Development:** C++, Swift, SQL - MySQL,NOSQl, HTML, CSS
**Machine Learning:** Numpy, Pandas, Matplotlib, Scikit-Learn
**Tools**: Git, Linux, Microsoft Azure, AWS, Xcode, Jira

## EXPERIENCE

**San Jose State University**                                            Sept 2023 – Present
*Teaching Assistant*                                                              *San Jose, CA*
- Teaching Assistant for **Data Structures and Algorithms in C++(CMPE 30)** under professor Loc Lam

**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 **1,000 users**
- Developed a Large Language Model feature for the GTP:IT platform using **Python**, automating tax return transactions and impacting more than **5,000 users**

**American Express**                                                     Apr 2022 – Aug 2022
*Engineer III*                                                                    *Gurgaon, IND*
- Involved in designing architecture and development,of building native **iOS applications with Swift**.
- Experience in **Apple Push Notification Service (APNS)**.Gained knowledge of **iOS SDK** performance tools and optimization techniques
- Experience consuming web services and **HTTP REST interaction with JSON and XML**

**Mediatek Technologies**                                               Jul 2021 – Mar 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

**Clima**                                                               Jan 2024 - Feb 2024
- **Technologies Used: Xcode - Core Data - Swift - UIKit**
- Built an app using **delegate design pattern** and URL session for **networking**
- Engineered a **core location services** to get location data
- Implemented **Core Graphics** to add text to images and **Core Data for data storage**

**AWS ETL Data Pipeline in Python on YouTube Data**                    Aug 2022 - Dec 2023
- **Technologies Used: SQL - Python3- AWS Glue - Quicksight - AWS Lambda - AWS Athena**
- Architected and executed a dynamic data pipeline project, driving substantial improvements in data processing efficiency and analytics capabilities
- 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