

AKSHAY PATEL

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TECHNICAL SKILLS

Programming Languages: Python, SQL, React-Native, JavaScript, TypeScript, Java, C/C++

Database Technologies: Snowflake, MySQL, MongoDB, SQL Server

Cloud Platforms: AWS, Azure, Google Cloud

Frameworks/Tools: Hadoop, Spark, Kafka, Airflow, Docker, Kubernetes, Git

Expertise in: Data Structures, Algorithms, Distributed Systems, Database Systems

EXPERIENCE

San Francisco Bay University, Fremont, CA - Teaching Assistant Feb. 2024 – Present

- Developed course materials and interactive assignments focused on **data modeling** and **implementation**, and large-scale data processing.
- Delivered lectures and hands-on demos to help students master complex database and data engineering concepts
- Presented research on effective teaching techniques, leading to **15%** improvement in student test scores.

e-Infochips, Gujarat, India - Software Engineer Nov. 2022 – Aug. 2023

- Designed and implemented scalable data pipelines for ingesting, processing, and storing IoT sensor data.
- Optimized database performance and reliability, ensuring **99.9%** uptime during integration of new modules.
- Collaborated cross-functionally to deliver real-time monitoring and remote control capabilities for connected devices.

Moon Technolabs Pvt. Ltd., Gujarat, India - React-Native Developer Feb. 2019 – Nov. 2022

- Developed high-performance mobile apps with a focus on data-driven features and offline capabilities.
- Migrated user data from legacy systems to modern cloud-based data stores like Firebase and AWS.
- Leveraged expertise in Android Studio and Xcode to identify and resolve critical performance issues.

Virtual Heights Pvt. Ltd., Gujarat, India - Python Engineer Intern Jul. 2018 – Feb. 2019

- Securely transmitted real-time data from **Raspberry Pi** to cloud by implementing robust **encryption protocols**, ensured data integrity.
- Developed module with **fingerprint access**, leveraging my skills in **hardware integration**, Python to deliver an innovative solution.

PROJECTS

PENTAIR | RN, Animation, Wi-Fi & Bluetooth service Nov. 2022 - Aug. 2023

- Designed and implemented scalable data infrastructure to ingest, process, and visualize IoT sensor data.
- Developed mobile app with real-time device monitoring and control features, reducing operational costs

SEEKRZ | RN, Animation, Firebase, AWS | [iOS App](#) | [Android App](#) May 2021 - Nov. 2022

- A streetwear fashion platform for buying, selling, and trading new and own luxury sneakers, clothing, accessories from top brands
- Built data pipelines to capture and analyze user behavior, purchase data, and inventory information.
- Implemented caching and asynchronous data loading to improve app responsiveness and user engagement.

HEIRLIST | RN, Animation, Firebase | [iOS App](#) | [Android App](#) Mar. 2020 – Jun 2022

- App gathers information about deceased individuals; family members register and answer questions to obtain a report.
- Engineered a module for seamless transition between online and offline(**local storage**) mode switching, resulting in a **25% boost** in speed.
- Utilized a secure **deep linking** using Firebase, ensuring user access to others' accounts with distinct roles is granted by main user.
- Developed of custom animations and UI components, achieving a **60%** improvement in app smoothness and a **10%** reduction in app size.

CHALLENGER | RN, Map, Firebase Sep. 2019 – May 2020

- Developed a sports-centric app featuring intuitive search and **matching algorithms** to connect users and enable friendly challenges.
- Designed a live countdown feature for matches, real-time timer tracking, **improving** player experience and gameplay **efficiency**.
- Streamlined player communication and boosted engagement by **30%** by developing chat modules, minimizing reliance on external apps.

SQLITE - Browse Editor Manager | RN, SQLite | [Android App](#) May 2019 – Jul. 2020

- Implemented a feature allowing offline data management through **local database** creation/import and in-app editing capabilities.
- Developed a multi-format data export solution (**.csv**, **.xlsx**, etc.) and report generation capabilities, leveraging DB files for data analysis.

i-DETECT | Python, Raspberry-Pi, MySQL Jul. 2018 – Feb. 2019

- Developed a real-time luggage tracking system with **Raspberry Pi** and **Django**, enhancing user experience and security during travel.
- Increased bag security by **70%** by designing and implementing a fingerprint authentication system using a Raspberry Pi.
- Architected and built a Django-based website, focusing on user accessibility and facilitating **real-time tracking** across diverse platforms.

EDUCATION

MS in Computer Science at San Francisco Bay University, Fremont, CA (GPA: 3.97) Aug. 2023 – Jan. 2025

BS in Information Technology at Gandhinagar Institute of Technology, Gandhinagar, India (GPA: 3.38) May 2015 – Apr. 2019

AWARDS / CERTIFICATES

- Recognized with "**Megastar of Hybrid Technology**" award twice at Moon Technolabs Pvt. Ltd. (2021/22) for a highly preferment app.
- For consistent dedication to quality and innovation, I was awarded "**Employee of the Month**" at Moon Technolabs Pvt. Ltd. (2019).