# Sarthak Parikh

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## Objective

Passionate Software Engineer with expertise in Deep Learning, AI, and ML, seeking a role in Software or Full Stack Development. Proficient in Java, Python, and JavaScript frameworks like React, Node, and Angular. Experienced in cloud computing, Kubernetes, and implementing AI/ML models for predictive analytics and natural language processing. Currently pursuing a Master's in Computer Science at NJIT, graduating in December 2024. Proven track record in developing scalable applications and driving innovation in distributed environments. Committed to continuous learning

## Skills

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|---|---|
| Programming Languages | Java 8, Java 17, Java Script, Type Script, Python |
| Libraries and Framework | Spring, Hibernate, Flask, Django, Angular, ReactJS, NodeJS, ExpressJS |
| AI/ML | Supervised/Unsupervised Learning, NLP, Linear/Non-linear Regression, Random Forest, Boosting, Neural Network |
| Databases | MongoDB, MySQL, Oracle, Elasticsearch |
| Additional Skills | AWS (Lambda EC2, ELB, S3, Light shell, Batch), Docker ,Kubernetes ,Kafka ,Bigdata, Hadoop, Git, Spark, Agile, virtualization |

## Experience

**Freelancer Web App Developer**                                                July-2022 – June-2023
Self Employed                                                                    Ahmedabad, India
• Completed multiple web app projects, delivering cutting-edge solutions using **React, NodeJS, and Angular**.
• Successfully managed **end-to-end project development including Design, development, testing and implementation**, ensuring timely delivery and quality.
• Demonstrated proficiency in full-stack development.

                                                                                 Jan-2022 – June-2022
**Software Engineer Intern**                                                     Ahmedabad, India
Rapidops Solutions
• Gained hands-on experience in web development **and cloud technologies while working with Experienced Developers and Scrum Team**
• L**earnt how to improve performance and scale By Deep diving into Docker** and **Elasticsearch**
• Contributed to the development of web features using **Angular**, **NodeJS**, and **MongoDB**.

## Projects

**Student Management System**
Objective: Build a system to manage Student access, Marksheets, Fees Status and Attendance. The system allows students to view their mark sheets and upload required documents, while admins can monitor student status and manage fee records.
Role: Java Developer
- Helped Develop Backend system in MYSQL to support storing data for student access, admin access, and fees management.
- Utilized Java servlets for
- **Application reduced manual work by 15%**.

**Permission Based Admin Dashboard**:
Objective: Build a User interface for Admins to provide required access to users. The system should ensure only allowed users should be able to access Authorized sensitive data.
Role: Full Stack Developer
- Developed the front-end using Angular, enabling admins to define various permissions for users. This system ensures that users can only **access authorized data, enhancing data security and user management**.
- Utilized MongoDB as the database, and implemented the backend using **NodeJS** with **ExpressJS** and Mongoose for efficient data handling and scalability
- Successfully completed user acceptance testing to ensure admins can correctly use the interface.

**Flight Data Analysis:**
**Objective:** Use Big Data Technologies to analyze large dataset of Airlines and identify trends and insights of Flight delays and cancellations.
Role :Big Data Engineer
- Developed a Oozie Workflow using Map reduce to Ingest data from Airline Website.
- Tried optimizing the workflow with increased mappers to increase parallelism and decrease execution time
- Stored the data in a Hive Database and Analyzed the Dataset for Trends using Hive Query Language ( HQL)

**Hospital Management System:**
**Objective:** Build a comprehensive system for managing patient records, appointments, billing, and inventory with secure and intuitive access.
Role:Back end Developer
- Helped develop a Web interface for the Hospital staff in React, NodeJS , HTML, CSS and JavaScript.
- Helped build a database in MYSQL to Store Customer billing, Stats, timelines
- Integrated Front end and Backend to test the application E2E.

**Android Bus Tracking Application:**

**Objective:** Develop a user-friendly mobile application for real-time bus tracking to enhance passenger convenience. This should account for delays, changes in schedule etc

Role:  Android App Developer

- Developed a Mobile App using Google MAPS API integrated with Java/Kotlin and Android Studio. Worked with a team of Android developers to understand the implementation of such Apps End to End.
- Tested The App to check real time tracking of buses

**Hotel Management System:**

**Objective:** Software to Automate and streamline hotel operations with a user-friendly interface for staff and guests.

Role: Full Stack Developer

- Created a User interface with HTML, JavaScript, Java and Spring boot for Hotel Staff. Understood the wireframes needed and implemented same using HTML and JavaScript.
- Enabled Backend support for Room Booking on MYSQL database. Worked on understanding the normalization needed for the tables and implemented same.
- Enhanced operational efficiency and data accuracy, providing comprehensive management reports.

**Publications**

Advancement in Network Infrastructure: Replication, Expansion, and Security Implementations- IRJET

**Education**

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|---|---|
| **Master of Science in Computer Science**– New Jersey Institute of Technology<br>Course Work: Big Data, Machine Learning, Deep Learning, Artificial Intelligence | Aug 2023- Expected Dec-2024 |
| **Bachelor of Science in IT** – Gujarat University<br>Course Work: Android, Data Structures and Algorithm, Web Applications | Aug 2019- June 2023 |