

PRASHANT GUPTA

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WORK EXPERIENCE

Software Developer | Ketsol Solution Pvt Limited

Apr 2024-Present

- Designed and developed an interactive dashboard using **REACT** and **FastAPI**, a modern **Python web framework**, to provide **real-time data visualization** and **analytics** to users.
- Implemented **Docker**-containerized **backend services** to enhance **scalability**, **portability**, and streamlined deployment.
- Developed and deployed real-time data streaming functionality utilizing **RabbitMQ**, facilitating instantaneous updates and notifications on the dashboard to facilitate seamless **asynchronous communication**.
- Engineered **message queues** and **consumers** for streamlined **processing** and **distribution of data streams**, enhancing **system performance** and **scalability**.

Full Stack Developer | Ketsol Solution Pvt Limited

Jan 2024 – Apr2024

- Developed **scalable frontend applications** using **Next.JS**, **REACT**, **JavaScript**, **HTML**, and **CSS**, delivering high-performance, responsive **web experiences** across **devices**.
- Engineered **robust backend systems** with **Node.JS** and **Python FastAPI**, utilizing **SQLAlchemy ORM** for **MySQL** and **Postgres** database management, and implementing **CRUD operations** for efficient **data handling**.
- Deployed **full-stack applications** by integrating **frontend frameworks** with **backend services** using **Node.js** and **Express.js**, ensuring **maintainable** and **scalable solutions**.
- Implemented **secure authentication systems** using **JWT**, **OAuth2**, and **Auth0** for **user login and logout**, with **HTTP-Only cookies** for enhanced **security**.

IOT Engineer Intern | ATSC Ahmedabad

Oct 2023 – Dec 2023

- Developed an Automatic Toilet Cleaning System by integrating sensors, controllers, transistors, and Arduino, utilizing Arduino IDE for coding and automation in the project model.
- Engineered a seat automation mechanism using proximity sensors, IR sensors, Li-Ion batteries, DC motors with encoders, and servomotors. Designed and implemented a human detection system to trigger the cleaning process via IR sensors and an Arduino board.
- Enhanced project functionality by optimizing sensor integration and power management, resulting in a reliable and efficient automated cleaning system.

TECHNICAL SKILLS

- **Languages:** C++, C, HTML, CSS, JavaScript, Java, Python
- **Frontend Technologies:** React, Next.js, Tailwind CSS
- **Backend technologies:** Node.js, Python FastAPI, Express.js, Docker, RabbitMQ
- **Libraries:** OpenCV, scikit-learn, NumPy, Matplotlib, Data Visualization, AWS, MySQL, Postgres.
- **Security and Authentication:** JWT, OAuth2, Auth0, HTTP-Only Cookies.

PROJECTS

Smart Attendance Based System

Oct 2019 – Dec 2019

- Developed a Smart Attendance System utilizing face recognition technology combined with IoT and RFID cards to automate and streamline the attendance process across various sectors such as companies, schools, and institutions.
- Implemented Face Recognition Algorithms using machine learning models to accurately identify and verify individuals in real-time, ensuring reliable attendance tracking and eliminating the possibility of proxy attendance.
- Integrated IoT Devices for real-time data transmission, allowing seamless communication between face recognition cameras, RFID readers, and the central attendance management system.
- Designed and Deployed RFID Card System to complement face recognition by providing an additional layer of identification, particularly useful in environments with high security or where facial recognition might be challenging.

EDUCATION

**B. TECH IN ELECTRICAL AND ELECTRONICS
ENGINEERING**

Aug 2016 – Jul 2020

Dr A.P.J Abdul Kalam Technical University