Nikhil Lohar

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SUMMARY:
5 years of Experience as a Software Developer with a history of working in FinTech and Start-ups. Skilled in Python, Web technologies, and Node JS and currently exploring cloud technologies.

TECHNICAL SKILLS:
Python | Typescript | React | Angular | Next JS | NodeJs | Flask | Redis | MongoDB | Postgresql | Nginx | AWS | Kubernetes | Kafka | Pyspark | Docker | Git

EXPERIENCE:
Software Engineer - Internship - Genie AI | Toronto, Canada   **Mar 2024 - November 2024**

- Developed a private component library at Genie AI using the Atomic Design pattern, featuring versatile **React** components and graph-based widgets. This library was utilized across multiple projects, improving UI consistency and code reusability.
- Created an API using FastAPI and Server-Side Events (SSE) to generate dynamic question lists, **reducing response times by 30%**. The API provided real-time updates, enhancing user experience by delivering questions as they were received, instead of waiting for the entire set.

Data Engineer - Internship - Knorket.AI | Toronto, Canada   **Sept 2023 - Feb 2024**
- **Implemented** a modular architecture allowing easy extension and customization, **empowering** users to define and validate data expectations tailored to their needs.
- **Leveraged** the power of PySpark for distributed data processing and Great Expectations for precise data validation, **enhancing** the reliability of the validation process.

Full Stack Engineer - Research and Ranking | Mumbai, India   **Jan 2023 - August 2023**
- Created an appointment scheduler and calendar, increasing sales team productivity by 1.5 times.
- Engineered a robust API for appointments, reducing front end loading time by 30%.
- Integrated **National ID Aadhar API** and OTP Service for agreement signing and accelerating client onboarding by 60%.
- Implemented end-to-end automation with **Paytm Payment Service** and **JsDom**, cutting down processing time from 24-48 hours with a containment level of 92%

Software Engineer - Bitkraft Technologies | Mumbai, India   **Sept 2020 - July 2022**
- Developed a **global UI component library**, boosting productivity by 40% across various projects.
- Led the full development process of an EDA project, from ideation to deployment
- Resolved a file upload bug in the Ionic framework for Android.

Junior Frontend Engineer - Indiawyn Gaming | Mumbai, India   **Jan 2019 - July 2020**
- Conducted research to optimize Single Page Applications using Angular.js and its lifecycle events.
- Resolved website bugs, leading to a notable improvement in web functionality.
- Created an **end-to-end automation testing process** using Selenium, maintained via an Excel sheet.

PROJECTS :
XPay Payment Gateway - Freelancing Project
Tech Stack : Next.js, ReactJS, Tailwind, NodeJS, AWS, RabbitMq, node-corn
- **Architected** high-level system design based on research of Indian payment systems.
- **Developed** a secure Admin panel for managing offline payments, transaction statuses, and user roles.
- **Built** a UPI and bank transfer gateway with encrypted transactions.
- **Implemented** Node.js APIs with JWT and public/private key authentication for merchants.
- **Optimized** backend using RabbitMQ for 10,000+ requests, Redis for caching, and WebSockets for offline payment requests.

[LINK] Music Recommendation - Capstone Project I
Tech Stack : Next.js, Flask, Chakra UI, Scikit Learn, Numpy
- Frontend development using Next.js for creating interactive and intuitive.
- Backend implementation using Python and Flask
- EDA using Sklearn and pandas and KNN model for music recommendation
- Spotify API used to upload and create playlists.

[LINK] Autonomous Litter Detection and Delivery System - Capstone Project II
Tech Stack : Django,OpenCV, Tello SDK, Yolov8
- Developed an autonomous litter detection and collection system using ROS for robot control
- Implemented computer vision algorithms to detect and locate litter in the environment
- Designed a collection mechanism for the robot to pick up and store litter
- Created a user interface for monitoring robot status, detecting litter, and controlling drone

EDUCATION :
Durham College, Oshawa, Canada | Cloud Computing Post Graduate | May 2024 - Present
Durham College, Oshawa, Canada | Artificial Intelligence Post Graduate | Sept 2023 - April 2024
Xavier Institute of Engineering, Mumbai, India | Bachelors of Engineering in IT | Jun 2014 - Mar 2018