MAAZ SHAIKH
Gen AI & Full Stack Engineer

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SUMMARY

Software Engineer with 3.4 years of expertise in Generative AI and Full Stack Development (MERN Stack). Passionate about integrating AI technologies with Full Stack Development to create innovative solutions and drive technological advancements.

Proficient in Gen AI, RAG, Prompt Engineering, LangChain, Python, JS, React.js, MongoDB, and Node.js with a proven ability to deliver scalable and user-centric applications.

TECHNICAL SKILLS

- **Programming Languages :** Python, JavaScript ES6+, HTML, CSS.
- **AI & ML :** LLMs, LangChain, RAG, Agentic AI, LangGraph, Vector DBs, Streamlit, Pandas, ML, NLP, Deep Learning.
- **Front-end** : React.js, React Native(iOS and Android), Redux, React Hooks, npm.
- **Back-end :** Flask, MongoDB, Node.js, Express.js, SQL, FastAPI, Redis.
- **APIs & Testing :** RESTful APIs, Postman.
- **Cloud & DevOps** : AWS (S3, Lambda, API Gateway, EC2, IAM), Docker, GitHub, Bitbucket, Fastlane.
- **Tools & Management :** Jira, Confluence, VSCode, Xcode, Android Studio.

PROFESSIONAL EXPERIENCE

Tata Consultancy Services India Ltd.   October 2021 - Present

BFSI TAG (GenAI, LLMs, LangChain, Vector DBs, RAG, Flask, React.js, Streamlit)   October 2023 - Present

- Successfully **delivered 3 POCs** utilising LangChain, Azure OpenAI, GPT models, Vector DBs, ReAct Agent, Flask, Pandas, and other Python libraries.
- Implemented **RAG** architecture and ETL with vector databases to enable dynamic information retrieval, improving response accuracy in real-time applications.
- Leveraged **prompt engineering** strategies to refine interactions with AI models, leading to enhanced model performance and more relevant outputs in generative tasks.
- Developed **agentic AI** systems using LangGraph to automate decision-making and enhance user interactions through multi-step reasoning.
- Developed conversational **chatbots** for text summarisation, sentiment analysis, movie detail queries from CSV files, and other text-based interactions.
- Optimized **latency and data retrieval** with vector databases like FAISS, PineCone, and ChromaDB, tailored to project requirements.
- Performed **data analysis and wrangling** utilizing Pandas and numpy for enhanced insights.
- Developed custom APIs using **Flask,** to enable seamless integration of AI functionalities into web applications (React.js & Streamlit) enhancing user experience.
- Deep knowledge of Transformer models and familiarity with LSTMs, RNNs, and CNNs.
- Gained insights into the principles of GANs and their application to generative tasks.
- Kept up-to-date with advancements in Generative AI and related technologies.

GEHC Wally Transition (Node.js, Express.js, MongoDB, AWS, Docker)   June 2023 – October 2023

- Developed scalable, microservices-based server-side applications using Node.js, Express.js, and MongoDB.
- Architected **RESTful APIs** using **MVC** architecture for clean, maintainable, and scalable codebases.
- Implemented security measures, utilizing JSON Web Tokens (**JWT**) and passport.js for user authentication and authorization.
- Optimized database performance by leveraging **Mongoose**, for efficient schema design and query optimization.
- Designed and maintained robust data models for MongoDB (NoSQL) databases.
- Configured and managed S3 buckets for secure storage of application data and assets.
- Set up Docker containers for application, reducing setup complexity and improving scalability.

mAadhaar | myAadhaar | Aadhaar QR Scanner (React.js, React Native, Python, MySQL)   October 2021 - June 2023

- Website: myAadhaar | Android : mAadhaar | iOS : mAadhaar | Android : Aadhaar QR Scanner | iOS : Aadhaar QR Scanner
- Led a **team of 3** individuals, providing mentorship and fostering growth.
- Played a pivotal role in developing and enhancing the application, leading to an impressive user base of over **55+ million** downloads.
- Improved the application's rating from **3.3 stars to 3.8 stars** within a remarkable timeframe of 1.5 yrs.
- Collaborated with **cross-functional teams**, including Clients, UX Developers, Architects, and Payment Service Providers, to deliver innovative and user-centered solutions.
- Enhanced Single Page Applications (SPA) performance through advanced React.js practices such as code splitting and lazy loading, reducing page load times significantly.
- Proficient in state management using **Redux**, React Context, and React Hooks.
- Implemented Continuous Integration & Continuous Deployment **(CI/CD)** pipelines using **Fastlane**.
- Upgraded legacy app from React Native **0.59 to 0.67**, reducing size & improving performance by **~50%**.
- **Full ownership** of the project Aadhaar QR Scanner from day 1.
- Single-handedly led end-to-end development from **scratch to production**, initiating the project with **zero commits**.
- Debugged and resolved intricate issues, maintaining the application's stability and user satisfaction.
- Delivered a successful production release, ensuring seamless deployment.

PERSONAL PROJECTS

Detecting Poor Telecom Connectivity Regions (2019-2020)

- Designed and developed a Mobile App and Web App with integrated back-end for live data monitoring. Developed unsupervised K-means algorithm for the recommendations feature and utilized diverse data visualization techniques in the web app for comprehensive data analysis.
- Technology Stack : **Python, ML , Streamlit, MongoDB, Express.js, React.js, Node.js, React Native.**

GitHub Repo | Deployed Web App

Mapping ATMs, Banks, and Telecom Infrastructures (2021)

- This mobile app allows users to effortlessly explore nearby ATMs, Banks, Telecom Infrastructure, providing seamless navigation through Google Maps.
- Technology Stack : **Python, React Native, Streamlit, MongoDB, Express.js, and Node.js.**

GitHub Repo | Deployed Web App

Augmented Reality Business Card (2021)

- Just scan a card to get personal and business related details in Augmented Reality mode.
- Deployed a mobile app with realtime database.
- Technology Stack : AR Vuforia, Unity 3D, **Firebase**, C#.

GitHub Repo

ACHIEVEMENTS

- **1st** prize - Team Leader - Smart India Hackathon 2020 (**NATIONAL LEVEL**).
- 5/5 stars in JS and Python and 6/6 stars in Problem Solving on HackerRank.
- **Azure** AI-900 & AZ-900 Certified.
- Infosys Certified Software Programmer.
- Certifications from **IIT Bombay**.
- My contributions were prominently appreciated in Global FinTech 2022.
- All Certificates

EDUCATION

Bachelors in Computer Science and Engineering	[CGPA - 8.77]	**2017 - 2021**
MGMs College of Engineering – Nanded (Maharashtra)		
Higher Secondary Certificate		**2016 – 2017**
Sana College – Nanded (Maharashtra)		