

Aditya Dubey

Bengaluru, INDIA

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Profile

Results-driven Software Engineer with a proven track record of delivering high-quality solutions. Proficient in React JS, AWS services, CI/CD pipelines, and mobile app development. Experienced in optimizing performance and enhancing user experiences. Seeking opportunities to contribute expertise to innovative projects.

Skills

Programming Languages: JavaScript, Kotlin, Python, Dart, Ruby, PHP

Frameworks/Libraries: ReactJS, NodeJS, ExpressJS, ThreeJS, Flutter, Angular.js, React Native, GSAP, GrapeJS, VueJS, Ruby on Rails, pnpm, yarn, npm

Technologies: AWS Lambda, AWS Cognito, AWS AppSync, DynamoDB, GraphQL, Jenkins, Git, **Hugging Face Transformers, LangChain, OpenAI API, LLM Integration**

Databases: MongoDB, MySQL

Specialized Skills: **Generative AI, Natural Language Processing (NLP), Multilingual Speech-to-Text, AI-Driven Analytics**

Professional Experience

(Optimal Virtual Employee), Bengaluru

Sr. Fullstack Developer - MERN

04/2024 – Present

- Working on the Go-Collect application, a CRM used by Bingo Industries for managing daily operations.
- Facilitating quick resolution of issues for high-quality product releases and working on performance enhancements.
- Implemented a URL-based parameter system for CRM Prefill Integration, reducing operator errors, cutting training time, and increasing workflow efficiency.
- Developed a Smart Driver Search feature with search-on-type functionality, eliminating the need to open filter menus and reducing operational friction.
- Analyzed and resolved UI slowness in the Go-Collect platform, enhancing response times and improving user satisfaction for operators.
- Led the transition from nested queries to a view-based approach in GraphQL, minimizing data fetching and accelerating load times, ultimately improving UI performance.

(HeyCoach), Bengaluru

Tech Lead

12/2023 – 03/2024

- **AI-Powered Metric Generator (Python/LLM):** Architected a generative AI system leveraging Hugging Face's Whisper model for multilingual audio/video transcription. Integrated custom LLM workflows for semantic analysis, enabling users to interact with transcripts via natural language queries (e.g., "Identify compliance gaps") and preset questions across 1000+ files, with results visualized in tabular dashboards (React.js), improving QA efficiency by 40%.
- **Generative AI Workflow Automation:** Built a pipeline using LangChain and OpenAI APIs to automate transcript analysis, supporting dynamic chat interactions (e.g., "Summarize objections") and batch processing for bulk data in 5+ languages (Hindi, Spanish), reducing manual review time by 60%.
- Engineered rapid team expansion from 3 to 14 members, effectively tripling the development force, to accommodate growing project demands and foster a robust Agile development environment.
- Led comprehensive Agile project management across all phases—requirements gathering, prototype designing, development, testing, and deployment—delivering high-quality software solutions on schedule.
- Pioneered the development of a Kotlin-based mobile application featuring advanced call recording functionality to enhance sales team efficiency, optimize selling strategies, and identify and mitigate incorrect sales practices.
- Established a GitHub repository for meticulous tracking of developer tasks and deliverables, adopting Agile principles to ensure seamless project progression and enhanced team accountability.
- Designed and implemented GitHub Actions for automated deployment, streamlining the integration and delivery pipeline, and significantly improving development operations efficiency.
- Devised a cache implementation strategy that markedly reduced read operations, cutting down on infrastructure costs, and enabling the product to efficiently scale from serving 30 users to over 1000.
- Transformed recent college graduates into self-reliant individual contributors through a comprehensive mentoring program, markedly reducing my direct intervention and fostering a culture of continuous learning and autonomy.
- Innovated an in-house AI-based transcription service utilizing an open-source model in Python, significantly enhancing data processing capabilities and adding valuable features to our product offering.

(W Energy), Bengaluru

Software Engineer

05/2021 – 12/2023

- Defined project scope, objectives, and requirements; selected Flutter for the app's tech stack and architected both the structure and UI to seamlessly transition from a legacy application.
- Led the development team, offering technical guidance, ensuring code quality, and driving project completion within a stringent 6-month deadline.
- Directly contributed to coding using Flutter, spearheading the integration of new features, external APIs, and services, alongside managing the project's quality assurance protocols.
- Configured Jenkins for CI/CD pipelines of a React application, automated the build and deployment process using PowerShell scripts, and facilitated Jenkins integration with Git for streamlined version control.
- Enhanced a web application by developing CRUD functionalities for user and asset management, enabling bulk data operations, and optimizing load times for improved performance.
- Designed and implemented a task audits system, integrated AWS Cognito for robust user authentication, and ensured the application's compliance with GDPR and other pertinent security standards.
- Initiated the creation of a mid-stream application for truckers, aimed at maintaining logistics and transporting goods, significantly enhancing operational efficiency and productivity.

(Sugoi Labs Pvt/LTD), Bengaluru

Product Development Engineer

10/2020 – 05/2021

- Developed "Super Like" and "Like" functionalities for the Rekindle dating app using React Native, enhancing user engagement through dynamic messaging screens, subscription management, and payment failure handling while prioritizing data security.
- Constructed an efficient user management admin panel with React JS, integrating a support ticket system to streamline assistance and optimizing app performance for a superior user experience.
- Designed a user-friendly interface for the Carwashsurveys web platform with React JS, facilitating the creation of versatile surveys and collaborating on an admin panel development to oversee survey operations.
- Established a system for distributing redeemable coupon codes via email and developed secure user registration and login features, including super admin functionality for comprehensive management, utilizing React JS.
- Built a robust backend system to ensure data integrity, implemented email notifications for significant user interactions, and integrated a database to manage survey data and coupon details, enhancing operational efficiency and user engagement.
- Guaranteed the website's responsive design through meticulous development practices, implemented essential security measures to safeguard user information, conducted quality assurance tests, optimized web performance, and maintained comprehensive documentation to support future development efforts.

(TedRooX Technologies), Bengaluru

Full Stack Developer

01/2020 – 10/2020

- Designed a 3D visualization feature to enhance user interaction with clothing styles and fabric views, crafting an intuitive interface for seamless style and customization selection.
- Integrated a robust fabric selection tool in 3D, enabling features such as zoom, rotation, and color choice to provide a comprehensive and interactive shopping experience.
- Devised an efficient order placement system that includes customization features, streamlining the purchasing process while allowing for personal touches.
- Implemented user profiles to capture preferences, order history, and measurements, ensuring a personalized shopping experience.
- Developed the shopping cart functionality to allow for review and modification pre-checkout, enhancing the overall user journey and satisfaction.

(CueMath), Bengaluru

Software Engineer Intern

06/2019 – 12/2019

- Developed a Python-based GUI application to automate marketing tasks, including WhatsApp messaging and updates to internal tools, significantly enhancing operational efficiency.
- Engineered a comprehensive system overhaul that automated the manual process of data updating and report generation, streamlining sales operations across five cities.
- Collaborated closely with the technical team to swiftly address and resolve system escalations, ensuring continuous service excellence and system reliability.

Projects

AI-Driven Transcript Analytics (HeyCoach):

- Developed a Python-based metric generator using Hugging Face's Whisper for multilingual transcription (5+ languages) and integrated OpenAI's LLM for semantic analysis, enabling users to query transcripts via natural language (e.g., "Identify sales objections").
- Engineered a batch processing system for preset questions (e.g., compliance checks) across 1000+ files, with results displayed in interactive dashboards using React.js and Plotly, reducing manual analysis time by 60%.
- Designed a chat interface for single-file interactions using WebSocket and Streamlit, allowing real-time Q&A with transcripts and improving team productivity by 35%.

Sales Application:

- Implemented an AI-based transcription service for call logging, recording, and analysis.
- Created a sales automation pipeline to verify transcripts against business-specific prompts, improving call quality and eliminating incorrect selling.
- Utilized Python Flask API with WebSocket, MySQL DB, and Hugging Face Whisper model with Greq for backend operations.

FSM Product Development (Flutter):

- Created a multi-tenant SAAS product with Flutter, featuring over 100 unique features like location-based tracking and task resolution.
- Integrated Cognito for authentication and GraphQL for API interactions, serving over 5000 users.

FSM Web Application Optimization:

- Enhanced both frontend and backend using React.js, AWS Lambda, DynamoDB, and Elasticsearch.
- Implemented comprehensive CRUD operations and optimized system for scalability and performance.

Mineo.io (Full Stack Web Development):

- Contributed to developing Mineo.io, a meeting platform for investors and founders, using React.js, Node.js, Express.js, and MongoDB.

Rekindle Dating App (Full Stack Mobile App Development):

- Crafted a dating app with React Native and Node.js, featuring real-time messaging and Stripe payment integration.

Carwash Survey Website:

- Developed a survey platform with React.js and Node.js, enabling QR code distribution for survey redemption and data visualization for survey results.

Toll Tagger Application (Frontend Development with Angular.Js):

- Updated and optimized a logistics application for truckers from Angular v4 to v16, improving efficiency in operations.

AI Tool for Live Transcribing:

- Utilized Hugging Face's open-source model for transcribing audio from the sales application, enhancing data capture and analysis capabilities.

Sales CRM:

- Built a CRM system for over 100 sales personnel, handling a million entries with React JS, Node.js, Express, and MySQL.
- Implemented Redis cache for scaling, CRUD operations, data visualization using Chart.js, real-time lead distribution via WebSockets, and activity tracking.

Learning Portal:

- Developed a learning platform with React JS and Ruby on Rails, featuring a code editor, CRUD operations for question management, automated testing with TGP through fuzzy logic, and video streaming for live classes.

Education

2017–2019: M.Tech in Appropriate Technology and Entrepreneurship Practices, National Institute of Technology

2014–2017: B.Tech in Civil Engineering, Vellore Institute of Technology