



# Ali Nasir

## Full Stack Developer (6 years)

Committed to continuous learning and enhancing team productivity through strategic initiatives!

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## EDUCATION

University of the Punjab, Lahore, Pakistan

Bachelor of Science - Computer Science (3.8 CGPA)

## SKILLS

### Tools and Frameworks:

- **Artificial Intelligence & Machine Learning:** Large Language Models (LLMs), LangChain, AgenticAI, CrewAI, Vector Embedding, SageMaker, Bedrock, AWS Glue, OpenAI, PyTorch, TensorFlow
- **Cloud & DevOps:** AWS (S3, EC2, ECS, EKS, Lambda, Gateway, CloudFront, Amplify, CodePipeline, CDK, IAM, Serverless), Azure, GCP, Oracle Cloud Infrastructure, Docker, Kubernetes, Istio Service Mesh, CI/CD Pipelines, Terraform, SQS, SNS, Kinesis, Apache Kafka, RabbitMQ
- **Backend Development:** Python (Flask, Django), Node.js (Express.js, Nest.js), Java (Spring Boot), MySQL, PostgreSQL, MongoDB, Supabase, Redis, Firebase, Snowflake, OpenSearch, Prisma, Microservices, Distributed Systems, Event-Driven Architectures, OAuth2, Keycloak, JWT, Pytest
- **Frontend Development:** JavaScript, TypeScript, React.js, Next.js, Angular, Redux, Zustand, MobX, MaterialUI, Shadcn, AG Grid, Storybook, Bootstrap, TailwindCSS, Figma, TDD, Jest, Cypress, Puppeteer, Selenium
- **Data & Analytics:** Airflow, Hadoop, Apache Flink, Apache Spark, Tableau, PowerBI, Snowflake, Glue, Apache Kafka, Kinesis
- **Web3 & Blockchain:** Fireblocks, Web3.js, Smart Contracts, Decentralized Applications (DApps)
- **Observability & Monitoring:** Sentry, Datadog, New Relic, Jaeger, Prometheus, Grafana, CloudWatch, ELK Stack
- **Other Technical Expertise:** Chrome Extensions, Serverless Computing, Stripe, Netsuite, SuiteScript, OpenAPI, Jira, VercelAI, GitHub, GitHub Actions, GitLab, Bitbucket

## WORK EXPERIENCE

### Full Stack Developer

Fiverr & Upwork

Recognized as a trusted freelancer with a track record of delivering web projects on time, earning 5-star reviews for exceptional work, and maintaining a 100% job success score.

### Software Engineer (Full Stack Engineer)

2019 – 2023

i2c, Lahore, Pakistan

Led the development of highly secure Fintech applications.

### Turing (Senior Software Engineer)

2023 – Present

Collaborated with different clients and projects.

Remote

# PROJECTS

## Rivian

- Designed and implemented the Launchpad OT (LOT) application as part of the EngineeringOS (EOS) team. This initiative resulted in a robust interface to enrich the Delmia Bill-of-Process (BOP) with work instructions for electric vehicle manufacturing.
- Leveraged **AWS technologies** such as AppSync, **API Gateway**, **Lambda functions**, **DynamoDB**, and **Elasticsearch** to architect a **serverless** web application for seamless BOP enrichment, enhancing operational efficiency and scalability.
- Integrated **AI-powered** solutions using **LangChain** to process and interpret unstructured manufacturing data, enabling advanced insights and intelligent recommendations for enriching BOP workflows.
- Utilized **vector embeddings** to improve search accuracy and provide contextual suggestions, ensuring precise alignment between Delmia BoP data and MES requirements.
- Implemented **GitLab CI/CD** pipelines to automate code deployments, cutting deployment times by 40% and enhancing code quality across development, staging, and production environments.
- Utilized expertise in **AWS** and **serverless** architectures, along with strong **Python** and **JavaScript** skills, to enable features such as BoP tree navigation, version tracking, roles and permissions security, and visibility into Delmia/LOT/MES BoP differences.
- Delivered a solution that provides a source of truth for Delmia-to-MES enrichments, enables systematic refreshes of Delmia BoP data, and improves accessibility and update speed, establishing a foundation for continuous innovation and process improvement.
- Leveraged vector embeddings and AI tools to facilitate real-time updates and streamline data synchronization processes between Delmia and MES, fostering collaboration and innovation.

## Pickle

- Collaborated with Pickle, leveraging modern technologies like **Next.js**, **TypeScript**, and **AI-driven** analytics to build a dynamic platform for social media insights across Instagram, TikTok, YouTube, and Twitch. The solution empowered agencies by providing **real-time metrics**, **AI-enhanced sentiment analysis**, and customizable creator portfolios, significantly improving pitch effectiveness and campaign management.
- Integrated **LangChain** to enable advanced natural language query capabilities, allowing users to extract actionable insights from vast social media data effortlessly.
- Implemented secure account synchronization and data collection from multiple social platforms using **OAuth** and secure API integrations, eliminating the need to store passwords. This approach ensured data privacy, regulatory compliance, and fostered enhanced user trust.
- Leveraged **vector embeddings** to implement advanced creator search and recommendation functionality, ensuring precise matching based on content trends, performance metrics, and audience engagement.
- Utilized **Inngest** for managing **background jobs** to automate data synchronization and analytics gathering, enabling continuous and efficient insights.
- Engineered a flexible **notification system** capable of dynamically generating email and SMS templates based on user data, delivering timely and personalized notifications.

## Insage AI

- Developed InsageAI platform leveraging cutting-edge technologies: **Next.js**, **Vercel AI**, **PostgreSQL**, **AWS**, and **Mage AI**.
- Engineered an **AI-powered** system for **continuous data analysis** that generates actionable insights for data-driven decision-making.
- Enabled users to create **custom visualizations, metrics, and reports** or leverage an AI copilot to automate complex tasks.
- Designed a **personalized AI assistant**, trained on user data and preferences, providing **context-aware, intelligent experiences**.
- Delivered a future-forward **data analytics** solution that enhances productivity and empowers users with effortless data management and **visualization**.

- Enhanced productivity by implementing **automated workflows** tailored to individual needs, reducing manual intervention and improving user engagement.

### Carbonlink (Decarbonization Platform)

- Architected a groundbreaking **decarbonization** platform, empowering users to purchase, manage, and retire carbon credits from diverse projects and pools, with added API integration for direct project and pool sourcing into external products.
- Developed cutting-edge APIs using **Node.js**, **Typescript**, **AWS Lambda**, and a **Serverless** architecture, achieving a **30%** improvement in performance and providing **20%** more flexibility to meet project requirements.
- Implemented **AWS CDK** for a robust and scalable infrastructure, achieving a **40%** reduction in response time and a **30%** increase in system efficiency for improved performance.
- Achieved secure and frictionless payment transactions through seamless integration with **Stripe**.
- Incorporated advanced features such as intelligent factor suggestions driven by **vector embeddings**, **Artificial Intelligence**, and the **Langchain LLM** language model.
- Established transparency and accountability in Carbon Offset/Retirement through **Web3 Blockchain Fireblocks** technology.
- Leveraged **Prisma/PlanetScale** databases for efficient and reliable data storage and retrieval.
- Maintained comprehensive documentation using **OpenAPI** JSON schemas and **Storybook** for clarity and accessibility.
- Instituted precise logs and vigilant monitoring via **OpenSearch** to address issues promptly.
- Streamlined task management with **Jira** for efficient project coordination.
- Automated **CI/CD** pipelines seamlessly melded with **Github Actions** and **AWS Code Pipeline**, ensuring swift and reliable code deployment.

### Gridware

- Designed and implemented scalable, distributed systems supporting the concurrent command and control of millions of **IoT devices** for **real-time grid monitoring**.
- Developed robust data ingestion pipelines and APIs using **Python**, ensuring seamless processing of real-time sensor data.
- Engineered systems to provide in-depth **observability** into device health, behavior, and history, enhancing operational reliability for utility customers.
- Built customer-facing features and internal tools using **React** and **TypeScript** to improve user experience and team productivity.
- Leveraged cloud platforms (**AWS**) and **event-driven architectures** (e.g., **Kafka**, **Kinesis**) to deploy distributed applications at scale.
- Implemented observability solutions using tools like **New Relic**, **Grafana**, and **Prometheus** to monitor system performance and identify issues proactively.
- Contributed to **CI/CD** pipelines, **automated** deployments, and testing workflows, enhancing software delivery processes.
- Worked in **Linux environments**, developing networking scripts and managing filesystems for system optimization.
- Collaborated with cross-functional teams, including firmware engineers, data scientists, and product designers, to deliver high-impact solutions

### RMS (Resource Management System)

- Led the development as **Frontend lead** for a robust employee management system, utilizing **Next.js** to cater to the needs of over 500 companies, ensuring a modern and scalable solution.
- Engineered a comprehensive resource management system for global fintech call centers, employing **HTML/CSS**, **React**, **Next.js**, **Redux**, **Typescript**, **Java**, **Spring Boot**, **MySQL**, **Docker**, **Kubernetes**, and **Microservices**. This system streamlined daily tasks for agents and provided supervisors with efficient tools for employee management and request handling.
- Transformed **Figma** designs into production-ready code, ensuring a faithful representation of visual designs and delivering aesthetically pleasing user interfaces, incorporating modern UI frameworks.
- Enforced **Internationalization (i18n)** with **Next.js** and reusable graph components in alignment with design mocks and reducing localization time by **30%**.

- Ensured application security with **JWT**, **HTTP-only cookies**, **CSRF** protection, and data sanitization, leading to a **25%** decrease in security-related incidents.
- Deployed modules for Request Time Off, Disputes, Attendance & Schedule, and Flex Time, empowering agents to manage time-off requests and disputes, while providing supervisors with oversight into attendance, schedules, and flex time arrangements, seamlessly enhancing operational efficiency.

### IVR (Interactive Voice Recording)

- Built an Interactive Voice Response (IVR) application utilizing a tech stack including **React**, **Nextjs**, **Redux**, **Typescript**, **Java**, **Spring Boot**, **Istio**, **DynamoDB**, **AWS**, **Redis**, **MySQL**, **Docker**, and **Kubernetes**, with a **microservices** architecture using RESTful APIs.
- Created reusable React components in adherence to design mocks, managing state and libraries within the front-end project for elevated efficiency.
- Utilized **Jest** for component testing, packaged the app into a Docker image, and deployed on Kubernetes for scalable efficiency, reducing deployment time by **30%**.
- Incorporated the front-end with **Istio service mesh**, **Oauth2-proxy**, and **Keycloak OIDC**, optimizing modules with React hooks like **useCallback**, **useMemo**, and **useSwr**, resulting in a **30%** improvement in application performance.
- Crafted a validation utility in **Spring Boot**, seamlessly integrating it with the front end, improving data integrity by reducing data entry errors by **15%**.
- Introduced environment-specific configurations (**Dev/QA/UAT/STG/Prod**) through **profiling**, ensuring smooth transitions between different deployment environments, reducing deployment-related errors by **25%**.
- Applied observability tools such as **Kiali**, **Jaeger**, and **Prometheus** for traceability, adhering to JavaScript **ES6** best practices throughout the development process, resulting in a **20%** reduction in debugging time.

### Cardholder (Banking App)

- Led the development of a unified fintech application with a single **Java** codebase, incorporating **Spring Boot**, **JavaScript**, and **RESTful APIs**, enhancing cardholder functionalities.
- Engineered an **OTP** component for seamless integration into modules, adapting to client requirements and enhancing application security, contributing to a **30%** reduction in security-related incidents.
- Initiated an **on-demand cache refresher** module, allowing selective invalidation of the cache for specific tables, optimizing data consistency and performance, resulting in a **35%** improvement in application response time.
- Introduced **configurable settings**, empowering clients to define brand-specific elements such as alerts, email templates, texts, widgets, menus, and fields, fostering a customizable and client-centric user experience for their applications, leading to a **40%** increase in client satisfaction.

### Content Management System

- Led the end-to-end development and maintenance of SaaS banking applications, guiding new module creation, resolving bugs, managing QA processes, conducting code reviews, and overseeing team management.
- Mentored junior developers, offering guidance and facilitating code reviews that significantly elevated code quality standards, resulting in a notable reduction in bugs within the system.
- Orchestrated the smooth migration of over 100 client websites, collaborating seamlessly with cross-functional teams. This involved adapting templates and features to meet specific requirements, ensuring a seamless transition for enhanced user experience.
- Developed applications with JavaScript, HTML/CSS, AWS Lambda, and REST/RESTful APIs, showcasing proficiency in both technical implementation and effective team management.

### Linkedin Manager (Chrome extension)

- Designed a Chrome extension for recruiters with **React**, **Typescript**, **Redux**, **Nodejs**, **Dynamo DB** and **AWS technologies**.

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- Optimized job and candidate management, resulting in a **30%** reduction in tracking time and a **20%** increase in overall recruitment efficiency.
  - Pioneered the integration of innovative features, such as salary estimation and AI-generated content creation, resulting in a **32%** reduction in recruiter workload through task automation in the LinkedIn recruiter extension.

### Pet Aid

- Led the development of a client-initiated project for veterinarians and pet owners, utilizing **React**, **Next.js**, **Mobx**, **Node.js**, **Firebase** and **Stripe**, with a **microservices** architecture for scalability.
- Enacted **Amazon Chime** for video calls, reducing in-person appointments by **40%**, enhancing accessibility for users.
- Enabled global access through **i18n internationalization**, allowing users worldwide to use the platform in their preferred languages, resulting in a **28%** increase in user engagement.
- Attained project milestones, delivering a seamless platform that revolutionized scheduling and pet profile management for veterinarians and pet owners.

### Oracle Netsuite (Suitescript)

- Designed and implemented **saved searches** to efficiently track inventory stock levels and transaction units, enhancing data accessibility and decision-making.
- Developed and deployed **custom scripts** (including scheduled scripts) to add **custom fields** and extend system functionalities, ensuring alignment with business requirements.
- Built and optimized **workflows** to **automate** critical processes, streamline operations, and enhance sales efficiency.