



Ali Nasir

Full Stack Developer (6 years)

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

- **Email:** alinasir85@live.com
- **Portfolio:** alinasir85.github.io/MyPortfolio/
- **Linkedin:** linkedin.com/in/ali-nasir-04158817a
- **Github:** github.com/alinasir85
- **Phone:** [+923338656455](tel:+923338656455)

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

Fiverr & Upwork (Full Stack Developer)

Proven freelancer with a perfect job success score, 5-star reviews, and a track record of delivering projects on time.

i2cinc (Software Engineer, Hybrid)

Jun 2019 - Aug 2022

Enhanced fintech applications using Spring Boot and React.js, improving security, performance, and client satisfaction.

Pickle (Full Stack Engineer, Remote)

Sep 2022 - May 2023

Developed a real-time social media insights platform with Next.js, TypeScript, and AI, featuring metrics, sentiment analysis, and secure automation.

Carbonlink (Full Stack Developer, Remote)

Jun 2023 - Dec 2023

Architected a scalable, secure decarbonization platform leveraging AI, blockchain, and serverless technologies for efficient carbon credit management.

Developed the Launchpad OT application using AI and AWS serverless architecture to optimize EV manufacturing with intelligent insights and scalable solutions.

Collaborated with different clients and projects.

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, Next.js, 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**.
- 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.