

Nushirvan Naseer

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Senior Software Engineer

Results-oriented Software Engineer with 6+ years of experience building and optimizing high-performance applications. Specialized in modern frameworks (React, Next.js, Node.js), GoLang, and AWS cloud infrastructure. Proven ability to architect secure data pipelines, implement SSO/MFA security protocols, accelerate system rendering speeds, and lead cross-functional teams through complex technical challenges.

- **Programming Languages:** JavaScript, TypeScript, GoLang, Python
- **Cloud & Infrastructure:** AWS (Lambda, EC2, ECS, ECR, EBS, Batch), AWS CDK, AWS Amplify, AWS Cognito, MinIO
- **CI/CD & Testing:** GitHub Actions, AWS SDK, AWS CodeBuild, Cypress, Jest
- **Front-end Development:** HTML/CSS, Redux, Redux Persist, React Query, MUI, Tailwind CSS, Shadcn, Bootstrap
- **Web Frameworks:** Next.js, React, Nest.js, Node.js, Express.js, Flask, Ent
- **Problem Solving & Debugging:** Performance Optimization, Integration testing, E2E Testing
- **APIs & Integration:** RESTful APIs, GraphQL, SSO Authentication, Third-party APIs (e.g., Google Business API, OpenAI, Spotify, YouTube, Firebase, Google Analytics)
- **Version Control and Tools:** Git, Dotenv Vault, Docker, Webpack, Claude Code
- **Database Management:** MongoDB, SQL (e.g., MySQL, PostgreSQL), AWS Neptune, Janusgraph
- **Software Development Best Practices:** TurboRepo, Agile Development, Code Reviews
- **Technical Project Management**
- **Cross Functional Collaboration**
- **Server-Driven UI**

Career Experience

Full Stack Engineer, The Moonshot Factory (Kaleidoscope Team)

04/2025 to Present

Played a pivotal role on the Kaleidoscope team by driving major performance optimizations, strengthening security infrastructure, and leading the end-to-end development of data-driven modules utilizing the AWS SDK for GoLang. Achieved the 2nd highest number of contributions (320+) to the web application within the first year.

- **Optimized Application Performance:** Slashed dashboard and insight page loading times from 6s to under 2s (validated via Lighthouse metrics). Achieved this by migrating heavy logic to Redux with **redux-persist**, establishing a standardized pattern for query fetching and cache invalidation, eliminating duplicate API calls, and optimizing SQL database operations with essential indexing.
- **Architected Automated Correlations Module:** Engineered an end-to-end correlations bot utilizing the AWS SDK for GoLang. Implemented deduplicated crawl data processing logic to optimize cost and performance, created graph edges in AWS Neptune, stored data in S3 via MinIO, and wrote GraphQL resolvers to power a custom frontend.
- **Streamlined Infrastructure & Cloud Operations:** Leveraged an extensive AWS stack (Lambda, Batch, CodeBuild, EC2, ECS, ECR, EBS, Amplify, Cognito) and the AWS SDK for GoLang to manage cloud operations. Deployed scheduled database cleanup functions via AWS CDK, configured scalable database connection sizes across all microservices, and safely executed Odyssey migrations for live seed data.
- **Strengthened Security & Authentication:** Upgraded the AWS Amplify package from v4 to v6, significantly improving web app security and reducing required login steps. Engineered an SSO system and federated login flow (Google, Azure) with domain-based access controls and MFA for AWS Cognito, while successfully auditing and removing all critical, high, and low-severity vulnerabilities.

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- **Enhanced UI/UX & Server-Driven Configurability:** Improved web app configurability by establishing robust backend data title conventions to drive server-side UI logic. Developed dynamic, customizable components (Wizards, Charts, UVM widgets) for solution-engineers, implemented advanced resource-based filtering, and built a complete frontend with state management for a new security agent.
- **Accelerated Report Generation:** Drastically improved the insight report job by implementing parallel database fetching and processing in GoLang, reducing report generation time by 75% (from 60 minutes down to 15 minutes).
- **Modernized CI/CD Workflows:** Optimized the continuous integration testing workflow using Cypress and Webpack, and aggressively upgraded legacy packages to future-proof the application.

Full Stack Engineer, Waseela, Lahore, PK

12/2024 to 04/2025

Handling the development of features on the Kisaan Management System. Currently integrating Waseela Financial Services with DCore for financial services..

- Completed the development and deployment of 2 high priority standalone applications within the first two months of joining (KVet Licensee App and KDukaan Licensee App), ensuring over 800+ submissions by potential licensees in the Bhawana Area.
- Implemented configurational fixes to TypeORM migrations within the Kisaan Management System app, streamlining and fast-tracking the development of features involving the database schema.
- Undergoing training with Dcore to integrate their financial services with Waseela Financial Services to enable lending services for farmers.
- Won the Digital Signage Hackathon, building a React Native TV app to display custom promotional content on KDukaan centers in rural areas. Currently overseeing the development of the solution.

Software Engineer, RipeSeed, Lahore, PK

09/2021 to 11/2024

Delivered over 10+ client projects, driving on-time delivery and quality assurance. Technical Lead of 5 developers for **Influnity**, a Web+Chrome Extension project. Acted as the primary developer for applications like **Satoshi's Index**, **ProfilePro** and **AppointmentCore**, enhancing functionality and user experience.

- Completed 4 long term projects as the technical lead developer.
- Achieved over **10K+** active users for the AI-based content generation Chrome extension.
- Completed user-base and application migration from Digital Ocean and Grafana to AWS, React and NestJs, and then to GCP.
- Helped achieve a complete UI overhaul for AppointmentCore, a chrome extension and integrated the extension with multiple platforms.
- Developed a high priority AI based Cryptocurrency forecasts application using Ignite boilerplate for React Native and NodeJs+Firebase in under 2 weeks.
- Developed a newsletter summarization application called Beltway Brief using Flask, Langchain and OpenAI. Automated the delivery of newsletter to subscribed clients using a Gmail mailbox and Sendgrid.

Software Development Intern, RUN Pakistan, Lahore, PK

11/2019 to 8/2020

Joined as a part-time intern during my 3rd semester of university, quickly learning React and contributing to the development of RUN's web application. Spent the remaining time mastering React, and then later gaining proficiency in Flutter, building an e-commerce application from scratch.

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- Mastered React and successfully delivered a complete e-commerce solution for RUN Pakistan, while also gaining experience in Flutter.

Projects Accomplished

- **Kaleidoscope - (Web App, Backend & Cloud Infrastructure):** Core contributor to a highly configurable enterprise dashboard and automated insights platform. Architected an end-to-end data correlations bot utilizing the AWS SDK for GoLang, AWS Neptune, and GraphQL. Drastically improved application performance, reducing load times to under 2s by migrating logic to Redux, and optimized report generation times by 75% via parallel database fetching. Fortified system security by implementing SSO/MFA via AWS Cognito and upgrading AWS Amplify.
- **Influnity - (Website + Chrome Extension):** Influnity is an application that helps connect Influencers with their audiences and sponsors. Helped set up the Turbo Repo for development with TypeScript, Webpack, Dot-Env Vault, and then Infiscal. Designed the architecture on the backend using PostgreSQL, DrizzleOrm and NestJS.
- **KVet and KDukaan Licensee App:** These are two apps focused on getting potential vets and shop owners to sign up for Waseela's KVet and KDukaan initiatives. The applications were built using NextJs, Postgres, TypeORM and NodeJs. The forms are currently deployed and are enabling multiple rural applicants to join Waseela as business owners.
- **ProfilePro - (Chrome Store):** Engineered and launched a Chrome extension built with React, MongoDB, Express, and Node.js, enabling businesses to optimize Google profiles, generate creative posts, and automate replies. Spearheaded phase 1 UI development using Material UI, integrating seamless modals and pop-ups into Google Business pages.
- **Satoshi's Index - (Website):** Led the development and migration of Satoshi's Index from Grafana to a React and NestJS-based web app. Implemented Amazon Cognito authentication and managed the migration of over 1,000 users to Amazon RDS (PGSQL). Integrated subscription plans with Stripe, later transitioning to Square.
- **Movezic - Open Source (Personal Project on Github):** Developed a music migration tool using NextJs and Flask. The tool integrates with Spotify and YouTube Music for now. It lets you move playlists from one platform to another without hassle. The application is currently deployed at <https://movezic-app.vercel.app>.
- **AppointmentCore - (Chrome Store):** Collaborated with a team of 5+ developers to enhance app streamlining client appointment scheduling with Gmail, Outlook, Keepa, and Salesforce integrations. Integrated pop-up modals into Outlook, Gmail, and Salesforce, improving user experience and functionality.
- **Crypto AI Forecasts - (Mobile App):** Sole developer of Crypto AI Forecasts, a mobile app providing AI-driven trading solutions for novice and intermediate crypto traders. Built the app using React Native and the Ignite Boilerplate to ensure best coding practices.
- **NousTalk - (Web):** Collaborated as part of a 3-developer team to enhance NousTalk, an online platform for scheduling and communicating with licensed therapists from home. Resolved scheduling issues and implemented UI updates to improve user experience. Took over backend development, working with both a legacy .NET/C# system and a new Node.js backend.

Education & Credentials

Bachelor of Computer Science, National University of Computer and Emerging Sciences (FAST-NUCES), Lahore, PK

Awards & Achievements

Silver Medalist for SGPA of 3.94/4

CGPA: 3.61/4