Aishwary Tiwari

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Passionate Full Stack Engineer with 4.5 Years of Experience. Proven Track Record in Delivering Scalable, User-Centric Digital Solutions. Adept at Creating Sleek Websites, Building Robust API's, AI Driven Recognition System and Seamlessly Integrating Third-Party Services. Committed to Leading Projects from Concept to Completion, Ensuring Every Detail is Perfectly Executed. Let's Transform Vision into Reality with Innovative, Reliable, and Optimized Products.

EDUCATION

SHARDA UNIVERSITY
MSc in Information Technology
Aug 2020 | Gr. Noida
GPA: 8.3 / 10

JIWAJI UNIVERSITY
BSc in Mathematics
May 2016
GPA: 7.1 / 10

M.P. STATE BOARD
12th in Mathematics
May 2013
GPA: 8.4 / 10

SKILLS

TECHNICAL

Languages and Markups
- JavaScript
- TypeScript
- Shellscript
- Python
- HTML
- CSS

Frameworks and Libraries
- NodeJS
- ExpressJS
- Strapi
- ReactJS
- NextJS
- Angular

Databases
- MongoDB
- MySQL
- Postgres

AI & Cloud
- AWS Rekognition
- Docker
- CI/CD
- Portainer

Familiar:
- Photoshop
- Illustrator
- Figma

EXPERIENCE

TRIGYN TECHNOLOGIES PVT. LTD. | Software Engineer
Nov 2021 – Present | Remote

- Develop and maintain full-stack solutions for government digital infrastructure projects under Digital India Corporation, delivering scalable applications serving **1.5M+ users** across national-level platforms.
- Architected system optimization initiatives including migration to service-oriented architecture, AI-powered facial recognition integration (AWS Rekognition) reducing distribution discrepancies by 99%, and automated payment systems (PFMS), **achieving 40% improvement in response times** and 65% reduction in manual processing.
- Implemented enterprise integrations with Aadhaar-based SSO (Digilocker), unified authentication (Keycloak), message queuing (RabbitMQ), and caching layers (Redis) while establishing security measures including RBAC, encryption, and government compliance standards.
- Collaborate with government stakeholders for requirement gathering and solution delivery, mentor associate developer, recognized with "**Employee of the Quarter**" award for technical contributions.

DAZEWORKS | Software Trainee
May 2021 – Nov 2021 | Remote

- Developed and automated a Timesheet Tracking module within the internal HRMS tool, enabling employees to log and managers to approve monthly timesheets, incorporated dynamic handling for holidays and weekends to ensure accurate time calculations.
- Automated report generation, replacing manual Excel-based tracking and cutting process time by 40%, improving operational efficiency across HR and reporting teams.

PROJECTS

DIC - POSHAN TRACKER | Trigyn Technologies Pvt. Ltd.
MERN STACK | Mar 2024 – Present

Overview:
- National-scale nutrition surveillance system under the Ministry of Women & Child Development, serving **1.4M+** Anganwadi Centers and **10.12 crore** beneficiaries across India. Enables real-time tracking of nutrition service delivery, growth monitoring, and dynamic identification of stunting, wasting, and underweight prevalence among children through mobile and web platforms.

Development Contributions:
- Architected AI-powered Facial Recognition System using AWS Rekognition for beneficiary vKYC verification, processing **1.5M+** daily authentications and reducing food distribution discrepancies by 99%.
- Led backend optimization initiative by migrating 40% of monolithic architecture to service-oriented design, implementing Redis caching, database indexing, and query optimization **reducing system response time by 45%**.

• Built asynchronous data processing pipeline with RabbitMQ and Python worker scripts to handle high-volume data ingestion, implementing dead letter queues for fault tolerance and data loss.
• Integrated unified authentication system using Keycloak with event-driven architecture for cross-service user state synchronization and role-based access control across multiple microservices.
• Developed real-time admin dashboard with live monitoring and automated incident management system, improving state coordinator **operational efficiency by 45%** and enabling seamless ticket escalation via API integration.
• Implemented dynamic role delegation feature for multi-tier user hierarchy management, ensuring operational continuity during personnel absence.

DIC - PHD PHASE II | Trigyn Technologies Pvt. Ltd.
MSAN STACK | Nov 2021 – Feb 2024

Overview:
• A digital fellowship program for the PhD candidates and Institutes to get sanctions automatically from MEITY.

Development Contributions:
• Architected end-to-end scholarship management platform for government PhD fellowship program, handling proposal lifecycle from institute submission through candidate onboarding, progress tracking, and automated disbursement of fellowships and grants.
• Integrated Aadhaar-based SSO authentication via Digilocker for secure candidate registration and verification, ensuring compliance with government identity standards.
• Implemented automated payment system with PFMS integration and digital signature verification, reducing manual payment processing effort by 65% and enabling direct benefit transfer to candidates.
• Developed comprehensive admin dashboard with real-time analytics, automated report generation across payment, progress tracking, and candidate modules—reducing manual reporting effort by 40%.
• Engineered proposal management system with multi-step workflows, auto-closure mechanisms, pre-filled forms based on existing data, and interactive demo feature—reducing institute submission errors by 25%.
• Implemented enterprise security measures including rate limiting, data encryption/decryption, Aadhaar masking, and role-based access control for multiple user hierarchies.

Deployment Strategies:
• Managed the building, pushing, and deploying of Docker images of various services using Portainer, which enabled image pulling from the custom registry and service updating to the NIC server.