

AISHWARY TIWARI

Software Engineer

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Noida, India

Summary

Passionate Full Stack Engineer with **4.8 years** of experience delivering scalable, user-centric digital solutions for GovTech, HealthTech and EdTech. Strong background in building robust APIs, AI-driven recognition systems, secure integrations (Aadhaar, DigiLocker, PFMS) and event-driven microservices. Experienced in leading projects end-to-end, automating data/report pipelines, and optimizing systems for high-traffic usage.

Experience

Trigyn Technologies Nov 2021 – Present
Software Engineer Remote

- Delivered full-stack and AI-integrated solutions for government-scale HealthTech and EdTech domains, leveraging Node.js, Express, Strapi, React, Angular, Python, FastAPI, MySQL, MongoDB, DynamoDB, Redshift, and AWS services serving **1.5M+ daily users**.
- Collaborated with cross-functional teams and external stakeholders to translate complex functional requirements into feasible technical specifications, ensuring on-time delivery within budget for high-traffic, mission-critical systems.

Key Client Projects

- **Poshan Tracker (HealthTech / GovTech)**: Engineered a facial recognition-based vKYC system that processed verification for approximately **1.5 million** users, preventing fraudulent food distribution claims and reducing organizational losses from mishandling by **~35%**.
- Led migration from monolithic to **service-oriented architecture** implementing caching, database sharding/indexing, and queue-based processing with dead-letter queues, reducing average system response time by **~65%** and enhancing resilience during peak loads.
- Migrated selected data collections from MongoDB to DynamoDB, enabling significantly faster and more efficient ETL pipelines for data loading into Redshift, which improved analytics query performance and reduced data warehousing latency.
- Developed cron job-orchestrated custom automation scripts to perform scheduled lift-and-shift of comprehensive datasets from MongoDB to DynamoDB, enabling automated state-wise report generations.
- Architected real-time admin dashboard with live monitoring and automated incident management, improving operational efficiency for state coordinators by **40%**.
- **Visvesvaraya PhD Scheme (EdTech / GovTech)**: Architected role-based access control (RBAC) backend from scratch using Strapi, leveraging components, dynamic zones, and custom plugins to accelerate development and reduce overall backend implementation time by **30%**.
- Developed automated digital signature system utilizing PFX-based cryptographic signing for secure bulk verification and signing of PDF/XML financial documents, integrated with PFMS server to enable direct payment initiation—eliminating manual logins, data exports, and per-document processing—reducing verification officer efforts by **60%**.
- Integrated third-party services (DigiLocker, NIC Email/SMS) via custom Koa framework wrappers to support seamless document retrieval and notifications.
- Developed comprehensive admin dashboard for managing institutes, PhD candidates, monthly progress tracking, and grant processing (e.g., international conferences), with dynamic filtered report generation.
- Optimized frontend/backend packages and Docker images, achieving container size reductions of **27–35%**.
- Served as primary technical liaison with external stakeholders, translating requirements into actionable specifications and coordinating team efforts to meet client expectations.

Dazeworks Inc.

Software Trainee

May 2021 – Nov 2021

Remote

- Developed frontend enhancements and internal HRMS features using React & TypeScript, focusing on automation and usability.
- Engineered automated timesheet tracking module with integrated holiday calendar, compensatory off updates, and manager approval workflows, enabling precise monthly time logging and calculations for all employees.

- Automated report generation module by replacing manual Excel-based processes with streamlined in-webapp functionality, reducing processing time by **30%** and enhancing operational efficiency for HR and reporting teams.
- For a client in the solar power domain, migrated multiple Salesforce Process Builders to Flows by consolidating shared logic, significantly reducing system complexity and maintenance overhead.
- Implemented custom Apex triggers and Lightning Web Components (LWC) to optimize the lead generation module on Salesforce, improving data flow and process reliability.

Skills

Languages: TypeScript, JavaScript, Python, SQL, NoSQL, HTML, CSS

Backend / Frameworks: Node.js, Express, Strapi, FastAPI, Koa

Frontend: React, Angular, Next.js, LWC (Lightning Web Components)

Databases & Caching: MongoDB, MySQL, PostgreSQL, DynamoDB, Redshift, Redis

AI & Automation: AWS Rekognition, LangChain, LLM Agents, Ollama, HuggingFace

Cloud / DevOps: AWS (EC2, S3, Lambda, CloudWatch), Docker, RabbitMQ, Microservices, Portainer, CI/CD

Soft Skills: Requirement Analysis, Stakeholder Management, Team Building, Technical Liaison

Education

M.Sc. in Information Technology

2020

Sharda University

CGPA: 8.3

B.Sc. in Mathematics

2016

Jiwaji University

CGPA: 7.1

Senior Secondary in Mathematics

2013

MP State Board

CGPA: 8.4

Awards & Certifications

Certificate of Appreciation

Trigyn Technologies

Prime Minister's Award for Excellence in Public Administration

Ace Quarter of the Award

Trigyn Technologies

For Deliverables and Completion of Project on Time

Angular Certification (Frontend Developer Role)

Server Side Development using Node.js

MongoDB Fundamentals (M001)

Responsive Web Design (freeCodeCamp)

Interests

Cosmology

Travel

Console Games