Tushar Deomare

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Education

Government College of Engineering, Karad 2018 - 2022
B.Tech Mechanical Engineering (CGPA - 7.45) *Karad, Maharashtra*

Experience

Thinkitive Technologies Jan 2024 – Present
Software Engineer Trainee → Software Engineer – E2

- Architected AI call evaluation pipeline using OpenAI GPT-4o + fine-tuned models with custom playbook rules, automatically qualifying thousands of leads/month — reduced manual review time by 80% and cut transcription costs by 99.4% via AssemblyAI migration.
- Engineered 18 automated data pipelines integrating CallRail, Facebook Ads, Google Ads, Salesforce, MyCase, and Semrush with batch processing, exponential backoff, and rate-limit throttling — eliminated 20 hours/week of manual data entry across 80+ client accounts.
- Designed and scaled a 100-table MySQL schema with 83 composite indexes, soft-delete patterns, and multi-tenant data isolation, supporting millions of records across 80+ client websites with sub-second query performance.
- Integrated Google Ads API, Facebook Graph API, Semrush, and Google Search Console to build real-time SEO/PPC analytics dashboards — consolidated 5 separate tools into a single client-facing portal.
- Built customizable reporting modules with PDF/Excel export, role-based access control (3 user types, granular permissions), and an investor attribution engine with dual-rule allocation — enabling accurate revenue tracking that influenced six-figure monthly ad spend decisions.

Projects

🔗 **Market JD** | *Next.js 14, React 18, TypeScript, Prisma ORM, MySQL*

- Engineered a multi-tenant SaaS platform serving 80+ legal marketing clients, architecting 100+ API endpoints and a 100-table MySQL schema that processes millions of lead records across calls, chats, forms, and ad campaigns — operating as the primary engineering contributor on a mission-critical production system.
- Built an AI-powered lead qualification pipeline using OpenAI GPT-4o and AssemblyAI, automatically evaluating thousands of calls/month with custom rule engines and confidence scoring — reducing manual review time by 80% and cutting transcription costs by 99.4% through vendor migration.
- Designed 18 automated data pipelines syncing CallRail, Facebook Ads, Google Ads, Salesforce, and MyCase CRM data in real-time, with batch processing, exponential backoff, and rate-limit throttling — eliminating 20 hours/week of manual data entry across client accounts.
- Implemented an investor attribution engine with dual-rule allocation and cross-CRM lead matching (14+ phone format variants), enabling accurate revenue tracking that directly influenced six-figure monthly ad spend decisions for clients.

🔗 **LineLeader Manage (ChildCare SaaS)** | *React 18, TypeScript, Next.js, MongoDB, AWS Lambda, AWS S3, Agenda.js*

- Architected a report streaming pipeline replacing in-memory CSV generation with MongoDB aggregation pipelines, Node.js readable streams, and direct S3 uploads via @aws-sdk/lib-storage — built S3StreamingService, ReportGenerationService (Agenda.js job queue with configurable concurrency), MemoryMonitor, and streaming services for Aging and Ledger Detail reports, eliminating server OOM crashes on large multi-org report exports.
- Optimized MongoDB aggregation lookups to prevent the 100MB document limit error on multi-org billing reports, and tuned Agenda job queue concurrency/lock limits for parallel report generation — directly improving report delivery time for organizations with millions of invoice records.

Technical Skills

Languages JavaScript, TypeScript
Frontend Technologies ReactJS, Next.js, Redux Toolkit, Redux Persist, HTML, CSS
Backend Technologies Node.js, Express.js, NestJS, REST APIs, GraphQL, Agenda.js
Databases & Data Access MySQL, MongoDB, Prisma, Mongoose
DevOps & Cloud Docker, Kubernetes, YAML, AWS
Developer Tools Git, GitHub, Bitbucket, Jira, ClickUp