





Shreyas M Kaushik

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SUMMARY

Senior Software Engineer specializing in Node.js and FastAPI, with extensive experience in integrating and optimizing A.I and M.L models through API implementation. Proven track record in building scalable, high-performance applications and microservices. Experienced in coordinating with multiple teams to develop and deploy API and UI to production. Involved in designing and setting up base infrastructure for securing models and implementing efficient scaling strategies. Passionate about delivering innovative and impactful solutions to forward-thinking teams.

EDUCATION

- Sapthagiri College of Engineering** Bangalore, India
Bachelor of Engineering - Information Science; CGPA: 8.5 2018 - 2022

SKILLS SUMMARY

- Programming:** TypeScript, Python, JavaScript, SQL, Bash
- Web Technologies:** Node.js, React.js, HTML/CSS, EJS
- Frameworks:** Express, FastAPI, Django, TypeORM
- Cloud:** AWS (EC2, S3, SQS, ALB, EKS, API Gateway, Cognito), Heroku, GCP, Azure App Service
- Databases:** MongoDB, PostgreSQL
- Tools:** Git, Grafana, Promtail, Loki, Keycloak
- Infrastructure:** Docker, Kubernetes, Nginx, GitHub Actions

EXPERIENCE

- IHX** Remote
Senior Software Engineer Jul 2024 - Present
 - Persistence Engine:** Led development using TypeORM and Node.js/TypeScript, creating a single-layer persistence for all extraction engines.
 - Orchestration Engine:** Architected and implemented using SQS to process digitization requests and track processes across different AI/ML entities.
 - Authentication Solution:** Designed and implemented a comprehensive MFA and SSO solution using Keycloak.
 - Infrastructure Design:** Involved in designing and setting up base infrastructure for securing models and implementing efficient scaling strategies.
- IHX** Remote
Software Engineer Aug 2022 - Jun 2024
 - Quality Control UI:** Created QC U.I Screens for enhancing data accuracy and presentation of ML model outputs to help retrain models.
 - API Development:** Built fast, secure, and efficient API layers for clients to consume AI model outputs. Coordinated with multiple teams to develop and deploy model-wrapped API layers to production.
 - Observability:** Ensured comprehensive observability by implementing well-structured logging and integrating with Promtail, Loki, and Grafana.



PROJECTS

- Persistence Engine (TypeScript, Node.js, TypeORM):** Developed a single-layer persistence solution for all extraction engines, reducing average query time from 1-2 seconds to 10-15ms across 10 tables. Increased overall productivity by streamlining data storage processes for multiple extractors.
- Orchestration Engine (TypeScript, Node.js, SQS):** Built a scalable system to process digitization requests and track processes across various AI/ML entities. Processes over 10 million messages per day. Consolidated statuses from various entities for easier visualization to clients.
- Document Classifier (NodeJS, MongoDB, OAuth 2.0):** Developed for India's Largest Health Benefits Administrator to verify mandatory documents at claim submission. Provided clients seamless and secured integration to privately served Document Classification models. Increased "complete claim submissions on the first instance" from 23% to 77% within 2 weeks.
- QC U.I Screens (MongoDB, ReactJS, NodeJS, MUI, Redux):** Created Quality Control U.I screens for correction of M.L Model outputs. Built multiple screens according to the structure of claim documents like Bills, Discharge Summary and Lab Reports. The DC model accuracy was increased from 64% to 96%.

BLOGS

- Mastering Multi-Factor Authentication in Keycloak:**  SMS, Email, and TOTP Setup Guide.
- Unlocking Seamless Access:**  Orchestrating Centralized User Management with Keycloak.

CERTIFICATIONS

-  Architecting with Compute Engine
-  The Modern Javascript Bootcamp