

Shreyas M Kaushik

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EXPERIENCE

IHX | SOFTWARE ENGINEER

Aug 2022 – Present

- Implemented centralized configuration management using the "Apollo" project based on Apache ZooKeeper.
- Created Quality Control (QC) Screens for enhancing data accuracy and presentation of ML model outputs. Utilized React, Node.js, and MongoDB for effective data management and use feedback for model retraining.
- Architected and implemented robust APIs, employing modern web technologies and containerization for scalable and efficient solutions.
- Exposed Pytesseract OCR via AWS Lambda, improving scaling and response times. Integrated with AWS API Gateway for enhanced monitoring and analysis and ease of access.
- Ensured comprehensive observability across projects by implementing well-structured logging and integrating with Promtail, Loki and Grafana.

NULENTA PVT. LTD | SOFTWARE ENGINEERING INTERN

Aug 2021 – Apr 2022 | Remote

- Developed their core talent sourcing product Pro10X, which is a Chrome Extension used to source high-quality talents.

PROJECTS

DOCUMENT CLASSIFIER | NODEJS, MONGODB, AWS EKS, S3

- API is optimised to handle over 20k Document Uploads in a day.
- It provides clients seamless and secured integration to privately served Document Classification (DC) models.
- Spike on metrics for "Complete Documents Received on the first instance" from 23% to 77% within 2 weeks, 100% on insurers claim submission portal.

A.I. QC SCREENS | REACT, NODEJS, MONGODB, MUI

- Quality Control screens for correction of A.I. Model outputs.
- Multiple screens built according to the structure of claim documents like Bills, Discharge Summary and Lab Reports.
- Improved various model accuracy from 64% to 96% by using feedback provided using these screens.

KEYCLOAK AUTHENTICATION | AWS LAMBDA, API GATEWAY

- Keycloak authentication for all applications, ensuring robust access control using OAuth 2.0.
- Implemented using Lambda Authorizer to validate access tokens efficiently, thereby reducing load on the Keycloak instance.
- Allowed programmers to focus on functionality while maintaining stringent security measures.

DISCHARGE SUMMARY DIGITIZER | PYTHON, FASTAPI, S3, SQS, MONGODB

- An end-to-end API for discharge summary classification, and extraction using Python FastAPI.
- Designed for asynchronous processing using SQS.

EDUCATION

SAPTHAGIRI COLLEGE OF ENGINEERING

BACHELOR OF ENGINEERING IN INFORMATION SCIENCE

2018 – 2022 | Bangalore, IN

CGPA: 8.5

HKS PRE-UNIVERSITY PCMC

2016 – 2018 | Hassan, IN

Percentage: 89%

VIJAYA HIGH SCHOOL HIGH SCHOOL

2015 – 2016 | Hassan, IN

Percentage: 94%

SKILLS

PROGRAMMING

Javascript • Python • Java (Android)

WEB TECHNOLOGIES

Node.js • HTML/CSS • React.js • EJS

INFRASTRUCTURE AS CODE

Docker Compose • Kubernetes YAML

CLOUD SERVICES

AWS EC2 • Elastic Beanstalk • S3
Heroku • GCP • Azure App Service

CONTAINERIZATION

Docker • Kubernetes • Amazon EKS
AWS Fargate • Amazon ECS

OBSERVABILITY

Grafana • Promtail • Loki

AUTHENTICATION

Keycloak • API Gateway • Cognito

DATABASES

MongoDB • PostgreSQL • MySQL

ROUTING & WEB SERVERS

Nginx • ALB • NLB

CI/CD & VCS

GitHub Actions • Github • Gitlab

CERTIFICATIONS

- Architecting with Compute Engine
- Build Your First Android App
- The Modern Javascript Bootcamp