

# Harshith P Raju

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Software developer with over 5 years of experience building and maintaining Python-based backend systems using Django, FastAPI, and Flask. Experienced in designing REST APIs, distributed task processing with Celery, and integrating third-party data APIs at scale. Proficient in Elasticsearch for full-text and vector search, AWS services (Secrets Manager, S3, ECR, RDS), and building CI/CD pipelines with Docker and GitHub Actions, including migration safety tooling for zero-downtime deployments. Hands-on experience applying LLMs for document classification and building prompt-driven analysis workflows. Comfortable working across the stack with TypeScript, Next.js, and Vue.js when needed.

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## PROFESSIONAL EXPERIENCE

**Exlitem Pvt Ltd** (Formerly Offshore Research Partners)  
**Senior Staff Engineer**

**Dec 2022 - Present**

- Built and maintained the core Django REST API backend for a legal technology platform, integrating with third-party legal data APIs -- handling pagination, throttling, XML processing, and a multi-phase deduplication pipeline to prevent redundant data ingestion.
- Designed distributed task processing pipelines using Celery, including queue separation for sequential API processing, multi-host production support, and batch processing optimizations that reduced peak memory usage by ~80% per task.
- Integrated Elasticsearch to power full-text and structured search, with sorting, field mapping optimization, and bulk indexing, and extended it with dense vector and KNN search for semantic matching of domain-specific expertise.
- Built CI/CD infrastructure and zero-downtime deployment tooling, including Docker multi-stage builds with container registry caching, GitHub Actions workflows, and a custom migration safety check system that analyzes PRs for blue-green deployment compatibility.
- Migrated application secrets and storage to AWS, moving from environment variables to AWS Secrets Manager for centralized credential management.
- Leveraged LLMs for document classification and analysis, building prompt management APIs, document type detection services, and integrating AI models into research automation workflows with real-time WebSocket-based feedback.

**Tertium Technology**  
**Python Developer**

**Apr 2021 - Dec 2022**

- Spearheaded collaboration with internal teams to strategize, design, and integrate web scraping scripts that were custom-fit to company-specific requirements.
- Engineered and operationalized an advanced automation tool capable of batch processing data across multiple servers, ensuring swift execution of requisite scripts and reliable data output.
- Developed a verification tool for checking the authenticity of an email by inspecting MX records and conducting efficient SMTP tests.

## **Mind2i**

### **Software Developer (Freelance)**

- Led the development and creation of an all-encompassing web application, designed to facilitate student-instructor interactions and manage courses, workshops, and enrollment through an integrated payment gateway.
  - Implemented the Zoom API within the platform, providing efficient scheduling and management of virtual classes and workshops, thus streamlining the instructional process.
  - Utilized Amazon Lambda and S3 services in the innovative ingest and secure storage of Zoom cloud recordings, thereby enhancing digital asset management.
  - Expertly configured Amazon S3 and Cloudfront to both serve static and media files and enable seamless streaming of past class recordings, boosting user accessibility and convenience.
  - Established continuous deployment using GitHub actions and docker-compose
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## **SKILLS**

Programming Language: Python

Frameworks: Django, Flask

Front-End Programming: HTML5, CSS3, JavaScript

DevOps: GitHub CI/CD, Docker, Docker Compose

Cloud Services: AWS Lambda, S3, and CloudFront

Databases: Mysql, Postgresql

Others: Elasticsearch, Apache Airflow

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## **EDUCATION**

### **Bachelor of Engineering**

Majors: Mechanical Engineering

Sir M. Visvesvaraya Institute Of Technology