

Python Full-stack Engineer - AI Data & Evaluation Platform

Location: IIT Madras (On-Premise)

Employment Type: Full-time Contract (6 Months, Rolling)

About the Role:

We are seeking a seasoned, highly motivated Python Full-stack Software Engineer to build and maintain the core web applications powering our AI data management, evaluation, and benchmarking platforms. This role is critical for providing user-friendly, robust, and scalable tools for our AI and data science teams. You will be responsible for the end-to-end development of web applications, ensuring adherence to best practices in SDLC and DevOps.

Responsibilities:

- **End-to-End Web Development:** Design, develop, and deploy robust, scalable, and secure full-stack web applications using Python frameworks (e.g., Django, Flask) for both front-end and back-end systems.
- **API Development:** Design and implement RESTful APIs to support various application features and to integrate with existing backend services and AI models.
- **Data Management Platform:** Build and maintain web interfaces for **managing datasets** (upload, storage, versioning) and tools for **data curation** (labeling, cleaning, transformation).
- **Evaluation & Benchmarking Interfaces:** Develop user-friendly **front-ends for test execution** (manual and automated) and visualization **front-ends for live and batch mode evaluation** and **LLM benchmarking** results.
- **Client Data Management:** Implement secure, efficient systems for client data management and access control across the application ecosystem.
- **SDLC & DevOps:** Strictly adhere to Software Development Life Cycle (SDLC) best practices, including version control (Git), unit testing, integration testing, and CI/CD pipelines.
- **Database Management:** Work with databases (SQL/NoSQL) to design efficient schemas and manage data persistence for the applications.
- **Troubleshooting & Maintenance:** Debug, troubleshoot, and perform continuous maintenance of deployed applications.
- **Collaboration:** Collaborate with AI engineers, data scientists, and product managers to gather requirements and deliver high-quality software solutions.

Required Qualifications:

- Bachelor's or Master's degree in Computer Science, Engineering, or a related field.
- Minimum **3 years of professional experience** in developing **end-to-end Python web applications**.

- **Mandatory Skill:** Proven ability to design, build, and work with **APIs** (both consuming and building backend APIs).
- Expertise in **Python** and popular Python web frameworks (e.g., Django, Flask, FastAPI).
- Strong proficiency in front-end technologies: **HTML5, CSS3, JavaScript**, and modern JavaScript frameworks/libraries (e.g., React, Angular, Vue.js).
- Demonstrable experience with database systems (e.g., PostgreSQL, MySQL, MongoDB).
- Solid understanding of and experience in adhering to **SDLC best practices** (testing, documentation, code review).
- Experience with **DevOps** practices, including CI/CD tools (e.g., Jenkins, GitLab CI), containerization (Docker), and deployment processes.
- Experience with version control systems, especially **Git**.
- Excellent problem-solving skills, attention to detail, and a commitment to code quality.

Preferred Qualifications (Plus Points):

- Experience in **designing UI/UX** for complex web applications.
- Familiarity with data visualization libraries (e.g., D3.js, Plotly).
- Prior experience in developing tools for the AI/ML domain, such as data labeling platforms or model monitoring dashboards.
- Experience with cloud platforms for deployment (even if the current role is on-prem).

Contract Details:

- **Duration:** 6 months (with potential for rolling extension based on performance and project needs).
- **Work Arrangement:** On-Premise, Full-time.