

AI Software Engineer

PeopleSoft Job Code / Title:	8011 / AI Software Engineer
Department / Subdepartment:	Technology & Information Services
Organizational Relationship:	Reports to Senior Manager of Machine Learning
FLSA Status:	Exempt
UCM Level:	4 – Engineer
Last Updated:	March 5, 2025

General Summary:

The AI Software Engineer supports the development of full-stack Machine Learning (ML) and Generative AI (Gen AI) applications tailored to optimize legal and business workflows. Utilizing AI techniques, the Engineer directly supports end-to-end development of innovative solutions, contributing to rapid prototyping initiatives when needed. In collaboration with Machine Learning (ML) Engineers, the AI Software Engineer helps develop prototypes to evaluate technology readiness and suitability for specific applications, ultimately scaling the most promising prototypes to production-ready applications.

Essential Duties and Responsibilities:

“Essential duties” are those that an individual must be able to perform with or without reasonable accommodation.

1. Support the development of full-stack solutions for ML/GenAI applications, integrating both frontend and backend components to deliver robust and scalable solutions
2. Work closely with Machine Learning Engineers to develop prototypes that solve business requirements
3. Contribute to the ideation and development of solutions; collaborate with ML Engineers to transition prototypes into production
4. Develop ML/GenAI solutions in a professional manner and in accordance with established deliverable schedules and firm procedures
5. Stay up to date with the latest industry trends and technologies to help foster innovation
6. Code, test, and debug application systems per specifications
7. Prepare appropriate system and user documentation
8. Promote effective work practices, work as a team member, and show respect for co-workers
9. Protect and maintain any highly sensitive, confidential, privileged, financial, and/or proprietary information that Latham & Watkins retains

Position Specifications

Education

- Bachelor’s degree in Computer Science, Information Systems, Engineering, Data Science or related fields required

Work Experience

- A minimum of three (3) years’ Python experience required
- A minimum of two (2) years’ experience with full stack development preferred
- A minimum of three (3) years’ industry experience in full stack AI application development preferred

Knowledge, Skills & Abilities

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- Proficiency with Python including experience with libraries and frameworks relevant to ML/GenAI application development (e.g., LangChain)
- Proficiency with API development frameworks (e.g., Django, Flask, FastAPI) and knowledge of web standards relating to API development (e.g., CORS, OpenAPI)
- Experience with modern web development frameworks and languages, including React, Typescript, and Node.js with experience building and maintaining front-end and backend-applications
- Experience with alternative web frameworks such as Vue.js and a strong understanding of component-based architecture, state management and responsive design principles
- Familiarity working with production-grade vector databases (e.g., pgvector, Chroma, or Milvus) for efficient storage and retrieval of embeddings
- Familiarity with relational (e.g., MySQL, PostgreSQL) and/or NoSQL databases (e.g., Mongo)
- Solid understanding of modern software development practices including CI/CD/CT, Test-Driven Development, and version control (Git)
- Familiarity with Agile development
- Familiarity with container technologies (Docker, Kubernetes)
- Ability to work with unit tests, integration tests and common Python testing frameworks
- Familiarity with test-driven development
- Strong analytical skills, and a creative mindset to effectively define problems and explore solutions
- Well-developed and professional interpersonal skills; ability to interact effectively with people at all organizational levels of the firm
- Ability to work in a team environment with a customer-service focus
- Strong communication skills, both written and verbal
- Organizational skills needed to manage time well, prioritize effectively, and handle multiple deadlines
- Ability to handle confidential and sensitive information with the appropriate discretion
- Ability to continually learn and grow in the AI/ML field

Physical Demands

- Extensive time using a computer including use of a PC keyboard and mouse or similar data input devices is required.

Working Conditions

All Latham & Watkins positions are in a typical indoor office environment.

The statements contained in this position description are not necessarily all-inclusive; additional duties may be assigned, and requirements may vary from time to time, and from location to location.