AI Systems Developer

highereddjobs.com/search/details.cfm



Type: Full-Time
Salary: $76,550 - $137,120 per year
Posted: 8 days ago
Category: Network/System Administrator; +1 Software Engineer/Programmer

We are seeking a skilled AI Systems Developer to grow and maintain the University System of New Hampshire AI software platform. The ideal candidate will have strong software engineering skills with practical knowledge of integrating both local and commercial Large Language Models (LLMs) and Retrieval-Augmented Generation (RAG) systems into production applications. This role focuses on system architecture, API development, and creating a technical foundation that enables AI capabilities across our university system.

USNH offers a collaborative, innovative environment where you can grow your skills while working on cutting-edge AI applications that make a real research and academic impact.

Duties/Responsibilities

AI System Development and Implementation (40%)

- Design, implement, and maintain software systems and APIs that integrate LLMs and RAG pipelines
- Build scalable software infrastructure for AI model deployment, monitoring, and management
- Develop data ingestion and processing pipelines for RAG systems
- Create and maintain vector databases and search systems for document retrieval

System Optimization and Integration (25%)

- Optimize system performance, latency, and cost efficiency
- Select appropriate datasets, algorithms, and tools for specific AI applications
- Integrate AI capabilities into existing software systems and applications

Collaboration and Documentation (20%)

- Collaborate with cross-functional teams to understand requirements and translate them into AI solutions
- Document technical specifications and development processes
- Stay current with emerging AI technologies, methodologies, and best practices

Troubleshooting and maintenance (15%)

- Troubleshoot and debug AI systems to resolve issues and improve functionality
- Perform regular maintenance and updates
- Other duties as assigned

Requirements

Minimum Acceptable Education & Experience:

> Bachelor's degree and six years of experience in Computer Science, Software Engineering, or related field. Master's and four years, or combination of education and experience equal to ten years.

Knowledge, Skills & Abilities:

- 2+ years of experience developing AI applications in production environments
- Proficiency in Python LLM/RAG related libraries (Transformers, LangChain)
- Proficiency in Python web frameworks (Streamlit, FastAPI)
- Understanding of database design and management
- Experience with RPC, message queues, and asynchronous processing
- Familiarity with cloud platforms and their AI/ML services (AWS Bedrock, Azure AI Foundry)
- Excellent problem-solving skills and attention to detail
- Strong communication skills to explain technical concepts to non-technical stakeholders

- Ability to be flexible, adapt and promote organizational core beliefs and values

Preferred Qualifications:

- Background in deploying and monitoring LLM models in enterprise environments
- Proficiency in Python AI/ML libraries (PyTorch, scikit-learn, OpenCV)
- Experience with natural language processing, computer vision, statistical modeling, or other machine learning algorithms
- Experience with CI/CD pipelines and DevOps practices
- Experience with High-Performance Computing (HPC) related applications such as Slurm and JupyterLab/Notebooks

Applicant Instructions:

Applicants should be prepared to upload the following documents when applying online within the *My Experience: Resume/CV* section of the application: (Maximum of 5 Documents)

- Resume/CV
- Cover Letter

Applications that are missing any of the required items may not move forward for consideration. Additional uploaded documents not requested in the position announcement will not be reviewed.

The University of New Hampshire is an R1 Carnegie classification research institution providing comprehensive, high-quality undergraduate and graduate programs of distinction. UNH is located in Durham on a 188-acre campus, 60 miles north of Boston and 8 miles from the Atlantic coast and is convenient to New Hampshire's lakes and mountains. There is a student enrollment of 13,000 students, with a full-time faculty of over 600, offering 90 undergraduate and more than 70 graduate programs. The University actively promotes a dynamic learning environment in which qualified individuals of differing perspectives, life experiences, and cultural backgrounds pursue academic goals with mutual respect and shared inquiry.

EEO Statement

The University System of New Hampshire is an Equal Opportunity/Equal Access employer. The University System is committed to creating an environment that values and supports diversity and inclusiveness across our campus communities and encourages applications from qualified individuals who will help us achieve this mission. The University System prohibits discrimination on the basis of race, color, religion, sex, age, national origin, sexual orientation, gender identity or expression, disability, genetic information, veteran status, or marital status.

Compensation Pay Range:
$76,550.00 - $137,120.00

The pay range for this position is listed above. Actual offer will be based on skills, qualifications, experience, and internal equity, in addition to relevant business considerations. More information on benefits can be found here: USNH Employee Benefits | Human Resources

Location:
Durham

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Related Searches:

- Network/System Administrator
- Software Engineer/Programmer