NX-RESEARCH

NX-RESEARCH is a computer science research startup focused on developing causal-model AI systems that are accurate, efficient and explainable. Our vision is a smarter world where more humans have greater access to enjoy engaging, fulfilling and rich experiences empowered by responsible and explainable AI systems.

We are currently looking for an experienced Software Engineer to support our Autonomous Agent Systems.

As an Autonomous Agent Systems Software Engineer, you will be responsible for supporting the development and deployment of our technology and APIs, with special focus on robust, reliable and performant Autonomous Agent systems. As a key technical role in our startup organization, you will have the opportunity to shape the alignment of our development efforts with our business goals, you will play a pivotal role in driving innovation within the organization, and you will be essential in helping to bring our cutting-edge solutions to market.

1.   Requirements

1.1.   Bachelor's degree in Software Engineering, Computer Science, or a related field; advanced degree is a plus.

1.2.   Experience in a technical role with a focus on AI/ML agents, tool-use, retrieval-augmentation, performance assessment, or other related focus areas.

1.3.   Proven track record of delivering technical projects within a high-growth and fast-paced environment.

2.   Skills

2.1.   Experience in developing, evaluating and optimizing autonomous agents and/or retrieval-augmented systems.

2.2.   Understanding of scalable architectures, distributed systems, and software engineering principles.

2.3.   Excellent written and verbal communication skills, including the ability to present complex technical concepts to both technical and non-technical stakeholders.

2.4.   Interpersonal skills and ability to work effectively with cross-functional teams.

3.   Responsibilities

3.1.   Design, develop, and implement code for Autonomous Agent Systems with a focus on, but not limited to focusing on, behavioral models, causal models, world models, prioritization mechanisms, reward mechanisms, social-interaction mechanisms, and input-output interfaces.

3.2.   Assess and evaluate the performance of autonomous agent systems using internal and external systems and benchmarks.

3.3.   Design, develop and implement systems for evaluating the performance of autonomous agents

3.4.   Design, develop, and implement API functions and architecture features.

3.5.   Write code to support testing, analyzing, verifying and validating the codebase, inclusive autonomous agent systems, performance assessment systems, API systems, and other systems as needed.

3.6.   Evaluate overall system design, orchestration and deployment considering scalability, algorithm designs, infrastructure, and cloud provider systems and services.

3.7. Actively support the deployment of the codebase to various production environments during go-live periods.

3.8. Actively support the development and deployment of software for various applications which may be deployed in various environments, platforms, infrastructure and form factors.

3.9. Review the codebase for errors, safety, reliability, style, formatting, comments, refactoring, and opportunities for improvement.

3.10. Write, refine and update internal-facing and external-facing technical documentation

3.11. Provide technical leadership, mentorship, and guidance to cross-functional teams, fostering a culture of innovation and excellence.

3.12. Stay updated with emerging technologies, trends, and industry best practices, and evaluate their potential application to our business.

3.13. Actively support our STEADY Framework for AI Safety and Responsibility.

4. Particulars

4.1. 100% remote.

4.2. Up to 20% travel.

Join our dynamic and innovative team today and help drive the technological excellence that will soon power accurate and explainable AI systems.

Apply today with your resume, cover letter, and any relevant publications or contributions to demonstrate your technical expertise and capabilities.