

Job Title

Senior AI Software Engineer

Reporting Line:
Chief Technical Officer

Role Level:
5

Location:
Chester, UK (hybrid-based)

About Us

We are Oxbury: The only UK bank dedicated to British agriculture. Founded by farmers, bankers, and technologists, we have combined the worlds of financial services, technology, and agriculture to provide bespoke financial products to support the rural economy.

Our mission is to create and grow a sustainable, customer-focused, and innovative bank that supports and champions the financial health of the rural economy.

About the Role

As a pioneer in the financial services industry, we are committed to leveraging cutting-edge AI technologies, including generative AI, to enhance our operations, improve customer experiences, and drive strategic growth.

This role is pivotal in shaping our AI strategy, designing and implementing state-of-the-art solutions that comply with regulatory standards and mitigate potential risks. The ideal candidate is a self-starter with a strong technical background, a keen interest in AI, and a background in best-practise software engineering.

You will work closely with the CTO and collaborate with other members of the AI Steering Committee to ensure the ethical and responsible development of AI solutions. You will be responsible for the professional development of Junior members of the AI team, ensuring that they continue to develop excellent solution development skills.

This role offers the possibility to progress to Lead AI Software Engineer.

Role Responsibilities

Design and Development:

- ✔ Conceptualise, design, and implement AI-powered solutions, including those leveraging generative AI, to address business challenges and opportunities.
- ✔ Utilise data engineering and analysis techniques to prepare and process data for AI model training and deployment.
- ✔ Integrate AI solutions with existing systems and infrastructure.

- ✔ Manage and mentor junior team members to ensure that they acquire the skills necessary to develop robust solutions that adhere to Oxbury software engineering practices.

Risk Management and Compliance:

- ✔ Ensure adherence to data protection regulations (e.g., GDPR, UK Data Protection Act 2018) to prevent data breaches and unintended data loss.
- ✔ Implement robust risk management frameworks, specifically addressing the unique challenges of generative AI, to identify and mitigate potential risks associated with AI solutions.
- ✔ Stay abreast of regulatory developments in the financial services sector concerning AI, specifically guidelines from the PRA, FCA, and the Bank of England, and ensure compliance. Pay particular attention to the AI Public-Private Forum's outputs and the Bank of England's AI strategy.

Stakeholder Management:

- ✔ Collaborate effectively with cross-functional teams, including IT, business analysts, and product managers.
- ✔ Communicate technical concepts, including those related to generative AI, and findings to non-technical stakeholders in a clear and concise manner.
- ✔ Manage expectations and provide regular updates on project progress.

Continuous Improvement:

- ✔ Stay up to date with the latest advancements in AI technologies and methodologies, particularly in the rapidly evolving field of generative and agentic AI.
- ✔ Proactively identify areas for improvement and propose innovative solutions.
- ✔ Contribute to the development of best practices and knowledge sharing within the team, specifically regarding the use of generative AI in the financial services context.

Skills and Experience

Essential:

- ✔ Bachelor's or Master's degree in computer science, Artificial Intelligence, or a related field, or equivalent professional experience.
- ✔ Expertise in data engineering and analysis techniques, including data cleansing, transformation, and feature engineering.
- ✔ Demonstrable Software Engineering experience at a senior level, being able to propose solutions to complex problems and to deliver them unaided.
- ✔ Familiarity with cloud computing platforms (e.g., AWS, Azure, GCP) and their AI/ML services.

- ✓ Excellent communication and interpersonal skills, with the ability to collaborate effectively with diverse stakeholders.
- ✓ Self-motivated and proactive, with the ability to work independently and take ownership of projects.

Desirable:

- ✓ Professional experience in developing and deploying AI solutions, including those leveraging generative AI, in a regulated environment, preferably in the financial services sector.
- ✓ Team leadership experience.
- ✓ Knowledge of data protection regulations and risk management principles.
- ✓ Understanding of ethical considerations and potential biases in AI development, particularly in the context of generative models.
- ✓ Certification or professional development in AI/ML or related fields.

Benefits

- ✓ A very competitive salary with an excellent benefits package.
- ✓ 25 days holiday, plus 8 days bank holiday (this increases with service).
- ✓ Oxbury Bonus.
- ✓ Free Personal Training session every week.
- ✓ Private Medical Healthcare.
- ✓ Employee Assistance Programme.
- ✓ Life Insurance.
- ✓ Enhanced maternity/paternity leave.
- ✓ Employee referral scheme.

Application

Interested candidates should submit their CV and a brief covering letter outlining their experience in agriculture, any previous work experience and why they believe they are suitable for the role. To apply please click [here](#).