

Frontend Engineer Intern at AIDF-CRI

Background

The Asian Institute of Digital Finance (AIDF) is a university-level institute in NUS, jointly founded by the Monetary Authority of Singapore (MAS), the National Research Foundation (NRF) and NUS. AIDF aspires to be a thought leader, a Fintech knowledge hub, and an experimental site for developing digital financial technologies as well as for nurturing current and future Fintech researchers and practitioners in Asia. The Credit Research Initiative (CRI) is a non-profit undertaking under the AIDF. Pioneering the "public good" credit risk measures, the initiative is committed to advancing big data analytics and providing directly useful credit intelligence to academic and professional communities.

Moreover, AIDF-CRI is dedicated to staying updated with the latest trends and technologies, especially for AI and LLMs. We are currently in the process of productionizing an LLM-driven application system to enhance and diversify our credit solutions. This includes improving the frontend framework to not only ensure functionality but also to elevate the aesthetics and user experience.

Responsibilities

AIDF-CRI is actively seeking candidates with a strong passion for frontend development. The selected candidate will play a key role in transforming an LLM-based application prototype into a fully commercial product by enhancing our frontend to meet professional, market-ready standards, focusing on functionality, aesthetics, and user experience.

Particularly, the responsibilities will include:

- Frontend Development
 - Develop and implement responsive user interfaces based on provided UI/UX designs, ensuring a seamless user experience across devices and browsers.
- Team Collaboration
 - Contribute to the entire lifecycle of front-end development, from deployment and optimization to deployment, giving you exposure to full-stack product development.
 - Work closely with the backend and AI teams to integrate cutting-edge LLM (Large Language Model) technology into the front-end, allowing users to generate complex reports through the platform.
- Optimization and Testing
 - Implement and maintain unit, integration, and end-to-end tests to ensure the reliability and performance of front-end components.
 - Collaborate with the QA team to design test plans and participate in user acceptance testing (UAT) to ensure features are fully functional before release.
- Documentation
 - Document front-end development processes, including design choices, component structures, and performance optimization strategies, ensuring clarity and knowledge sharing within the team.

Minimum Requirements

- Preferably major in the areas of computer science/engineering or similar discipline.
- Familiar with at least one programming language (e.g. JavaScript, TypeScript, Python, Java).
- Knowledge of frontend development techniques and familiar with a modern web framework (e.g. React, Vue or Next.js, Remix).
- Familiar with web application development and experience in TypeScript/JavaScript, HTML, CSS, or other frontend languages.
- Basic understanding of RESTful APIs and handling API integrations.
- Familiarity with version control systems like Git.
- Strong analytical and problem-solving skills, with the ability to troubleshoot and resolve issues effectively.
- Excellent communication and documentation skills, both written and verbal, to collaborate effectively with team members and stakeholders.

Bonus Skills

- Experience with state management libraries like Redux or Vuex.
- Familiarity with modern build tools (Webpack, Vite) and CI/CD pipelines.
- Understanding of UI/UX principles and experience working closely with design teams.
- Ability to think creatively and propose innovative solutions to complex problems.
- Portfolio or examples of previous front-end work, including school projects or internships.
- Exposure to cloud services like AWS, Azure, or Google Cloud for frontend deployment.