Student Assistant: Frontend Developer React in a NLP project for Digital Humanities

Description: Language Technology Group at the Department of Informatics, University of Hamburg, is looking for a motivated student assistant (m/f/d) with a strong interest in state-of-the-art NLP technologies and modern web frameworks to assist us with the development of a novel web application for social scientists.

These days, the flood of information available for a given topic is above the level of what humans can digest in a reasonable amount of time. However, this would be of great importance to find, examine, and describe complex phenomena of modern societies. Fortunately, state-of-the-art artificial intelligence used for natural language processing is more and more capable of understanding human language in context.

The LT group just started building a cutting-edge web-based tool suite, which aims to leverage AI models to enhance the workflow of different tasks of social and cultural science researchers.

Tasks: your tasks in this project are the following
- Getting to know the project, i.e., goals, architecture, frameworks, and technologies
- Implement various features as React components, e.g:
  - Core functionalities like project / user settings, timeline, annotation…
  - Multimodal (text & image) search interface
  - Interactive visualizations for information management (e.g. graphs)
  - Visual analytics with NLP (e.g. sentiment analysis, topic model, clustering …)

(Once you're comfortable with the project, we'll discuss what features you'd like to work on.)

Requirements:
- Fluency in English or German
- Experience with:
  - React (or similar)
  - Git
  - JavaScript (TypeScript is beneficial)
  - HTML & CSS
- Teamplayer

Tech Stack:

Frontend: React, TypeScript, MUI, React Router, React Query, …
Backend: Python, FastAPI, PostgreSQL, Elasticsearch, spaCy, PyTorch, …

Salary: Negotiable
Hours per month: Negotiable (between 40 and 80 hours)
Start date: 01.07.22 or later

Questions? Come to my office F-430 or write a mail to **tim.fischer@uni-hamburg.de**
Interested? Please send a short application letter highlighting your previous experiences with web development to **tim.fischer@uni-hamburg.de**