Web Programming Student Assistant Job

(20 to 38 h/month)

The Institute for Enterprise Systems (https://www.uni-mannheim.de/ines/) at the University of Mannheim combines the transfer of interdisciplinary basic research with industrial research and development projects.

We are currently looking for a student with outstanding motivation and capabilities for our running industry project mobil-e-Hub. The project deals with autonomous parcel delivery using a fleet of drones and electric vehicles, and involves several industry partners to build a real-world delivery management platform.

Your tasks in this project will be:

- Maintaining the communication infrastructure between all components using the MQTT protocol
- Implementing suitable optimization algorithms in Python
- Extending the existing Vue app for visualizing real-life data flow
- Maintaining the CI/CD pipeline

Therefore, we require a strong interest in (and ideally also prior experience with):

- Git-based development workflows
- Python/Flask
- JavaScript/Node/Vue
- Algorithms and Data Structures, in particular graph-based algorithms

The architecture, components and documentation already exist, and need to be extended and maintained in response to current demands. You will be working together closely with the PhD researchers working on this project.

Have we aroused your interest?

Apply with your resume, your current transcript of records by email to marton@es.uni-mannheim.de.