

# Uber

Uber's mission is to put the world in motion. Achieving that goal requires world-class engineers writing high quality code.

## **Background**

Uber Freight is a division of Uber that is transforming the world of freight in much the same way that rides transformed personal mobility.

## **Project Description**

One of the challenges facing anyone who tries to automate the freight industry is the sheer complexity involved.

When automating a task (such as the scheduling of a pickup or dropoff), the nuances of the problem can result in up to a thousand lines of conditional logic in the code. When this begins to run at scale, the reasons behind its decisions are completely opaque to the user.

If this automation makes a bad decision, it's never clear whether it was the result of corrupt data, a bug in the logic, or if the decision was actually correct but counterintuitive.

This project will be about designing and implementing a proof of concept of a self-documenting automation engine that makes automation more transparent, allowing those familiar with the industry (product ops) to investigate problems for themselves rather than relying on software engineers.

## **Requirements**

We are looking for a team of 4 engineering students. Students should feel confident programming in a variety of programming languages and should be comfortable working with Linux.

Recommendations to our recruiting department are possible for students that show strong talent and a fierce determination to solve problems.