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.