

## **Database Time Machine**

### **Client**

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### **Background**

DataVerity develops enterprise level customer relationship management and business intelligence tools. Tracking changes in development is extremely important. Version control is invaluable for maintaining robust code. When developing data-centric systems, many controls are stored in databases, not in the code. Being able to track changes at the database level effectively, and possibly being able to revert to previous versions can be invaluable. That's where you come in.

### **Project Goals and Requirements:**

The goal of this project is to make a time machine for SQL-based databases, focusing on MySQL in this project. It will involve two sides: first, server-side calls to fetch changes that have been made to a database table record or records (using PHP and MySQL); and second, a graphical user interface (in Javascript and HTML) to run diffs, and possibly revert changes.

Students will learn a lot about web development, database development, etc. The majority of the programming will be done in Javascript, PHP and MySQL.

### **Suggested team size:**

3-4 students

### **Paid internships are available after Field Session for students that perform well.**

Work can be done from CSM campus (connecting to our remote dev environment) or at our office in Westminster, CO, between ping pong games.

### **Skills/Experience for CSM Students:**

- Javascript/AJAX
- PHP
- MySQL