Field Session 2013
Colorado School of Mines

Company Overview
Nimbee is a software startup in downtown Boulder, Colorado. We are passionate about both education and software, and we are focused on developing new technology to help teachers help students.

The founding team of Nimbee previously founded Kerpoof, which was acquired by Disney in 2008. After working at Disney for several years, we left to start Nimbee. We are a team of five engineers with deep technical expertise (100+ issued patents) and a history of delivering industry-changing products.

For the students that join our team, we offer an opportunity to not only build world-class software, but also the chance to have a real impact in an important market as well as the opportunity to work with a very talented and experienced engineering team in a fun, high-energy environment.

Application
With the explosion of online learning opportunities, new needs have arisen for world-class tools and apps that enable teachers, professors, and educators to create real-time, highly interactive lectures - lectures that are delivered on all platforms. We have seen the first wave of this trend - the Kahn-like instructional videos - that are static, lecture style videos. We want to make it possible for anyone to create such an instructional video, but we want to go much further. Instead of static instructional content that quickly becomes boring, we are going to enable the instructor to naturally and intuitively add direct interaction with the student. Instead of being "lectured to", students will feel more like they have a personal tutor at their side.

This application will be Web, iOS, Android enabled, and it will leverage the best of numerous emerging technologies. The application will also include extensive web back-end server work, with focus on technologies like Ruby application servers, NodeJS, and modern, web-scale distributed database and storage systems.

Key Technologies
There are a number of emerging technologies that will be leveraged for this effort.
- Cross-platform techniques for interactive content in a device/platform agnostic way.
- Express framework and Node.js for web services.
- Ruby/Sinatra based application server.
- NoSQL web-scale data and storage, Hadoop, Cassandra, MongoDB

- Both the application and the data store will be cloud-hosted leveraging Amazon's AWS/ EC2/Elastic Beanstalk.
- Recommender technology based on Apache Mahout.

Location

Flexible. The team will be expected to travel to Boulder for meetings and mentorship. Working independently or as a team in the Golden area will be acceptable. Students will be required to provide their own computer.