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## JEFFREY DUNCAN

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### Required Skills:

The Web based application may be developed using Java, Javascript, Python, or any combination of tools. Project Management, Communications

### Preferred Team

#### Communications:

Google hangouts, webex, conference call

#### Data Sources:

Georgia Tech synthetic data will be sufficient for the project. Mentor has additional synthetic data that can be used.

#### Other Items:

Project has timezone flexibility. Mentors and students will determine a good time for virtual meeting

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## BIRTH CERTIFICATES ON FHIR

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Birth reporting from Hospital EHRs to state public health departments currently include a manual component where a clerk abstracts medical information on newborn baby and mother, and keys into a web form. Would like to replace manual abstraction with a smart-on-FHIR process.

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### PROJECT OBJECTIVES

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1. Map birth certificate data elements to FHIR specification for subsets of birth data, e.g. prenatal info, risk factors, labor and delivery, newborn info.
  2. Create a FHIR interface to report part or all of birth certificate.
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### SUCCESSFUL PROJECT

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A SMART-on-FHIR application that extracts data elements from an EHR, performs limited logic to apply birth certificate reporting rules or requirements on a subset of birth certificate fields, such as prenatal care, labor and delivery, newborn, etc. A subset can be chosen so that the scope of the project is not too large.

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**Intellectual Property: Students own the IP on this project.**