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## ARUNKUMAR SRINIVASAN

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[fos2@cdc.gov](mailto:fos2@cdc.gov)

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### **Required Skills:**

Java, Python, Node, No Preference,  
Web (HTML / JS / CSS), SMART on  
FHIR, No Preference

### **Preferred Team Communications:**

to be discussed

### **Data Sources:**

Simulated population health data sets

### **Other Items:**

### **Team Info:**

Developer, Analyst, Tester, Project  
Manager

### **Additional Mentors:**

Dr. John Loonsk ( [John.Loonsk@cgifederal.com](mailto:John.Loonsk@cgifederal.com) )  
Rishi Tarar ( [rrt8@cdc.gov](mailto:rrt8@cdc.gov) )  
Sridevi Wilmore ( [eur3@cdc.gov](mailto:eur3@cdc.gov) )

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## DATA LINKING AND TRUST

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Data Linking and Trust Services such as pseudonymization, data perturbation are essential for the utilization of population health data for chronic disease surveillance. Current tools and approaches for these trust services are highly varied and limits the value and use of pop health data for surveillance. Identified and de-identified data are no longer adequate differential privacy categories. Trusted third parties, trust agreements, pseudonymization methods, selective data release function and data perturbation are need as confidentiality tools and services. This effort will look at selecting one of the services and implementing a prototype using the FHIR framework.

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### PROJECT OBJECTIVES

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1. Conceptualize, identify and implement/adopt standards needed for implementing data linking and trust systems
  2. Demonstrate by implementing a reference solution using SMART on FHIR, web technologies
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### SUCCESSFUL PROJECT

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The scope of work will be narrowed down to a tangible deliverable for the timeframe defined in the coursework.

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**Intellectual Property: None**