Development Engineering

CSEP 590 B

Open Data Kit

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May 18, 2020

Mount St. Helens, May 18, 1980

Today

- Announcements
- Waylon Brunette, University of Washington
- Discussion with Waylon

Announcements

- Discussion Sections – Zoom – Attend one
  - Wednesday: 3:00-4:00 pm
  - Wednesday: 5:00-6:00 pm

- Homework 7, Due May 26.
  - Short paper based on Open Data Kit readings
  - Submit by email
  - Course grade based on 7 of 9 assignments

- Next weeks lecture: Tuesday, May 26.

Course Schedule

Date	Topic	Lead
April 6	Engineering the Vaccine Cold Chain	
April 13	Community Cellular Networks	Kurtis Heimerl
April 20	Remote Temperature Monitoring	Martin Lukac, Nexleaf
April 27	Election Monitoring	James Long
May 4	Global Goods Software	Skye Gilbert
May 11	Voice Based Social Networks	Aditya Vashistha
May 18	Open Data Kit	Waylon Brunette
May 26	Water Sanitation and Health	Ashok Gadgil
June 1	Fintech for Rural Networks	Jenny Aker
June 8	Development Engineering Discussion	Temina Madon and Anustubh Agnihotri

Development Engineering

Technological interventions to improve human and economic conditions in low-resource settings

Technical aspects of development engineering
Context for development engineering

How is development engineering practiced in different settings and domain

Global Goods Software

- Software designed to support global development
- Provided as a Global Good
  - Open source models predominate
- Robust to infrastructure challenges
  - Poor network connectivity
  - Low cost devices
  - Limited technical capacity

Open Data Kit

- Mobile data management for development organizations

- Platform for organizations to implement solutions

- Project started in 2008, prior to public launch of Android
  - Mobile networks and available devices have evolved considerably since then

Academic Projects in Development Engineering

- Academic incentive structure
  - Create projects that have impact
  - Mentor students
  - Publish research results
- Open Data Kit
  - Started by Professor Gaetano Borriello
  - Research program on mobile applications
    - Need to focus on problems that require innovation
    - Scoping projects at "Phd Thesis" level
  - Challenge of spinning out academic projects in global goods setting

Today – Open Data Kit

- Waylon Brunette
  - PhD student, University of Washington
  - Graduating June, 2020
  - Amazon and Intel Research Seattle experience
  - One of the original developers of Open Data Kit

Over to you Waylon. . .

CSEP 590B, Development Engineering