

KUAN BUTTS

geomatics, spatial computation, network science, OSS, data science/engineering

EXPERIENCE

Mapbox – *Senior Software Engineer*

NOV 2019 – PRESENT, SAN FRANCISCO, CA

- Processing and classification of live global stream of multimodal location data
- Calculation of real-time road speed profiles, feeding ETA and route selection

UrbanFootprint – *Data Science & Engineering*

JAN 2017 – SEP 2019, BERKELEY, CA

- Optimization of high resolution spatial models with prolonged runtimes
- Development of network graph models on urban travel network data

Code for America – *Software Engineer, Fellow*

JAN 2016 – DEC 2016, SAN FRANCISCO, CA

- Text-based communications software development (ClientComm)
- Generated large text communications dataset for client success rate research
- Application deployed in 3+ US jurisdictions, serving thousands of end users

Microsoft – *Civic Technology Fellow*

AUG 2015 – DEC 2015, NEW YORK CITY, NY

- Ingestion of live NYC MTA bus data to monitor real-time schedule adherence

MIT + MIT Media Lab – *Graduate Researcher, Software Developer*

AUG 2012 – AUG 2015, CAMBRIDGE, MA

- Contributed to development of app to geotag rider sentiment along transit lines

EDUCATION

MIT – *Master of City Planning, Transportation Systems Planning*

AUG 2012 – SEP 2014, CAMBRIDGE, MA

Thesis: *Iterative Methods in Adapting Mobile Technologies for Data Acquisition, A Case Study in St. Louis, Missouri*

Washington University – *BS Architecture, Urban Planning Focus*

AUG 2007 – MAY 2011, ST. LOUIS, MO