KUAN BUTTS

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

EXPERIENCE

Mapbox — *Senior Software Engineer*

NOV 2019 - PRESENT, SAN FRANCISCO, CA

- Processing of global trace location data
- Curation of road segment traffic profiles, related mobility metrics (eg ETAs)

UrbanFootprint — *Data Science & Engineering*

JAN 2017 - SEP 2019, BERKELEY, CA

- Optimization of complex 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 2016 - DEC 2015, NEW YORK CITY, NY

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

AUG 2012 - AUG 2015, CAMBRIDGE, MA

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