Alexander Nelms

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Skills

- Python, R
- ArcGIS
- Machine Learning, Deep Learning, & Remote Sensing
- JavaScript & Web Mapping
- SQL Databases & ETL Pipelines

Education

Masters of City Planning

University of Pennsylvania

Aug 2022 to Dec 2023

Masters of Urban Spatial Analytics

University of Pennsylvania

Aug 2021 to May 2022

B.A. in Geography Minor in City Planning

University of California, Berkeley

Aug 2016 to May 2018

A.A. in Social & Behavioral Sciences

Antelope Valley College

2014 to 2016

Experience

Community Development Dept. Technologist

City of Walnut Creek, Planning Dept.

Walnut Creek, CA ♦ Nov 2019 to *present (part-time after Aug 2022)*

- Provides spatial analysis & data on permit processes, long-range plans, & land use policy
- Utilizing Python GIS, ArcGIS, web mapping, & machine learning to improve the planning process

Long-Range Policy Intern

City of Berkeley, Land-Use Planning Dept.

Berkeley, CA ♦ Jan 2019 to Nov 2019

- Provided GIS & planning analysis to long-range plans, staff reports, & the permitting process
- Presented reports on housing density, parking standards, & transit-oriented developments

Survey Researcher II

Transportation Sustainability Research Center, UC Berkeley

Berkeley, CA ♦ May 2018 to Nov 2019

- Performed literature reviews, surveys, public outreach, & editing for transportation publications
- Co-authored reports on Shared Mobility, High-Speed Rail Station Access, & Shared Automated Vehicles

Cartographer

Civil Maps Automated Vehicles

San Francisco, CA ♦ Dec 2017 to Aug 2018

- Analyzed LIDAR point clouds to determine traffic right of way & to train the AV's on-board recognition software

GIS Workshop Instructor

INCity Certificate Program, UC Berkeley

Berkeley, CA ♦ July 2019

GIS Intern

City of Berkeley, Information Technology Dept.

Berkeley, CA ♦ May 2018 to Dec 2018