

THERESE M. DIEDE

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projects

SKYSCRAPER-GO! • Learn the SF skyline. Collect all the tall buildings.

Users create and collect trading cards of their favorite SF skyscrapers. A map instance of Mapbox GL displays geographical markers for each building entry in PostgreSQL. On click, an AJAX request returns data from the Python/Flask server to produce graphic material for trading cards: text description, user comments, a Chart.js bar chart, and a randomly selected Flickr photo from metadata in MongoDB.

ADU TOOLKIT • Accessory Dwelling Units: Explore their construction.

San Francisco's residential crisis looks to architecture for a minimum viable living condition. What can property owners construct to add capacity to their lots? This app guides users through various design and material implications.

HOUSEPLANTS • Green-thumbed friends rate their favorite houseplants.

Want to know what plants will survive your lazy watering routine? Here's a social media app that uses a bit of machine learning to help you invest your green wisely in greens that will last.

COCKTAIL BUCKETLIST • Track your drunken progress before you leave.

This app lets users (who may or may not be moving) create a bucketlist of activities and track their progress through the city's best.

BIKE-SHARE 2.0 • Celebrating 10 years of Vélib'-style bicycle sharing.

Launched in August 2013, Bay Area Bike Share is expected to expand tenfold by 2017. Users can explore ride data and see a story play out.

MASTERS THESIS •

Modal Shift to Vélib' Bike Share: A Cognitive Mapping Approach

UNDERGRADUATE HONORS •

The Transformation of Urban Space: A Comparative Analysis of Gentrification in New Orleans and San Francisco

work

Architecture + Structure, Designer | WARE

Apr 2015 - Jul 2016 • Oakland

- + High-end residence (Atherton)
- + Park shelters (Mt. Umunhum)
- + Floating pool concept (bay/lake)

Interior Architecture, Designer | SOM

Nov 2014 - Mar 2015 • San Francisco

- + Moscone Expansion (SoMa)
- + SF VA Medical (Lands End)
- + A tech campus (Mountain View)

Lead Cartographer + 3D Visualization Artist

| Rowan Technology

Jul 2013 - Oct 2014 • New York

- + Strategized how to produce in less than 9 months: 700+ maps for a digital interactive textbook concurrently used by West Point cadets.
- + Generated in-depth feature assets, including 3D terrain fly-throughs, battle diagrams, infographics, and data visualizations.
- + Coordinated many moving parts with publisher and client on print book layout, orchestrating graphics and maps for 3 feature gatefold spreads.

objective

Hello! I am a software engineer excited to build tools and solve problems. My previous exposure to programming came through architecture, urban planning, and spatial data analysis.

technologies

back end

Python, Ruby, SQL

front end

JavaScript, jQuery, AJAX, Jinja, HTML, CSS

frameworks

Flask, Angular.js, React.js, Node.js, Bootstrap

databases

PostgreSQL, MongoDB

os + tools

Linux, Git

data analysis

GIS, SPSS, R

3d modeling

CAD, CNC, Rhinoceros/Grasshopper, 3dsMax, V-Ray

design

Illustrator/Photoshop/InDesign, After Effects, Sketch

education

HACKBRIGHT ACADEMY | SF
Software Engineering • 2016

COLUMBIA UNIVERSITY | NY
Master of Architecture • 2013
M.S. Urban Planning

TULANE UNIVERSITY | NOLA
B.A. Sociology, Envir. Science
Magna cum laude, Senior Scholar

volunteer

Studio + Tools | The Crucible