

# Therese M. Diede

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GitHub: [github.com/tdiede](https://github.com/tdiede)

Portfolio: [theresediede.com](https://theresediede.com)

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## TECHNICAL SKILLS

- **Proficient:** Python, Flask, JavaScript (ES6), Node, Hapi, PostgreSQL, MongoDB, RabbitMQ, Jenkins, Docker, AWS, Elasticsearch, Kibana, StatsD, Grafana, Bitbucket Pipelines, Mocha, Chai, Sinon, Git, Bash, HTML5, CSS3, D3.js
- **Exposure:** Golang, Ruby, NGINX, Redis, Firebase, TensorFlow, GDAL, Three.js, Unity (3D)

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## PROFESSIONAL EXPERIENCE

**August Home (acquired by Assa Abloy) | Backend Software Engineer, Intern | San Francisco, CA** Apr. - Oct. 2017

- Architected backend SMS-processor service utilizing Node, RabbitMQ and Twilio API, modernizing to ES6 and decoupling SMS functionality from email and push notifications, sending ~4K SMS/day to 1 million smart lock users.
- Deployed system to AWS Elastic Beanstalk running with autoscaling on multi container Docker instances, tested with Jenkins automated builds, and configured with Pingdom uptime checks written in Go for each environment.
- Shipped pertinent logs to Logstash and Elasticsearch using Filebeat, visualizing previous 30 days of logs in Kibana.
- Collected SMS success rates incrementing StatsD counter, via CollectD/Graphite plugged into Grafana dashboard.
- Implemented continuous integration with Bitbucket pipelines for 30 - 40 Git repositories, requiring feature branches to pass linter and 100% of tests before merging to master, saving at least 2 hours weekly debugging broken code.
- Developed efficient, test-driven JavaScript code, using Bluebird to perform asynchronous promise chaining, while maintaining 70 - 80% test coverage using Mocha, Chai, Sinon, and Istanbul.
- Refined server-side logic of internal Tools website using Hapi.js for controller routing, Handlebars.js to template and validate HTML syntax, and Foundation CSS to create subnav bar, improving internal tools productivity for 90+ users.
- Created 2 new tabs for Airbnb and August Access populated with MongoDB queries of 10,000+ Airbnb reservations and > 25 partners, allowing all teams to interact directly with data and insert new documents into database collections.

**WARE Associates | Software Engineer + Architectural Designer | Oakland, CA** Apr. 2015 - Dec. 2016

- Built Python and Flask system for property owners interested in purchasing an ADU (Accessory Dwelling Unit), enabling users to select between and visualize 14 design options along 6 parameters such as wall and roof material.
- Automated ADU visualization process using JavaScript, enabling clients to imagine end product efficiently, increasing sales by over 10% and speeding up client communications by 5+ days.
- Coordinated construction of \$6 million custom high-end residence, responding to contractor RFIs within 24 hours.
- Drafted 100+ structural details, and generated > 50 architectural details for 33 types of window and door openings.

**Skidmore, Owings & Merrill | Architectural Designer | San Francisco, CA** Nov. 2014 - Mar. 2015

- Produced Revit BIM construction documents (drawings, schedules, specs) for 3-building VA Hospital seismic retrofit.

**Rowan Technology | Lead Cartographer & 3D Visualization Artist | New York, NY** Jul. 2013 - Oct. 2014

- Created 500+ maps and 5 in-depth feature assets for an interactive textbook concurrently used by West Point cadets in required military history course in less than 9 months using ArcGIS, Adobe CC, and 3DS Max.

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## SIDE PROJECTS

**Pack the Box | Software Engineer | [code](#)** Jan. 2017

*Python script to conduct interactive spatial experiments exploring randomized shape placement and backoff attempts, visualized with Turtle graphics.*

**Skyscrapers SF | Software Engineer | [live](#) | [code](#)** Aug. - Sep. 2016

*Platform displaying 100 tallest SF buildings on Mapbox GL web map with Flickr API integration for users to contribute architectural images.*

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## EDUCATION

**M. Architecture & M.S. Urban Planning, Columbia University**

- Relevant Coursework: Thesis on Bike Sharing Systems and Cognitive Mapping, GIS, BIM, Parametric Design

**Bachelor of Arts in Sociology and Environmental Science (Magna Cum Laude), Tulane University**

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## ENRICHMENT

**Demystifying Deep Learning & AI** | hands-on machine learning conference by Accel.AI Feb. 2017

**The Town's Half Marathon (Oakland)** | 13.1 miles completed in PR time 2:29:11 Aug. 2016

**Sonoma County Backroad Challenge** | metric century bike ride of 66 miles with 4K feet elevation gain May 2015