

# NATALIA MARGOLIS

SOFTWARE ENGINEER

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[github.com/nmargolis](https://github.com/nmargolis)



See my story: [nataliamargolis.io](https://nataliamargolis.io)

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## SKILLS

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**TECHNOLOGIES** JavaScript (Node, React), Python, SQL, AWS cloud, HTML/CSS, Linux commands, Git

**LANGUAGES:** English (native), Spanish (limited working proficiency), Catalan (elementary)

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## EDUCATION

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**GEORGETOWN UNIVERSITY** BSFS, Science, Technology & International Affairs

May 2013

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## EXPERIENCE

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**MAPBOX – Software Engineer** February 2018 - Present

- Developed high availability Search and Static APIs that serve millions of requests per minute.
- Owned previously unmaintained cache microservice shared by Map APIs (Redis, ECS, Envoy).
- Built API for points of interest from product design phase through beta (Node, Elasticsearch, AWS).
- Gathered requirements, wireframed, scoped, and built UI for search quality ratings (React, Mapbox).
- Cut indexing time in half by profiling the existing script and analyzing metrics to identify bottlenecks, then running an iterative approach to right-size concurrency and batch size.
- Designed a custom CI system on AWS Codebuild to run tests in parallel to speed up test runs, and a command line tool for summarizing results of automated quality tests to speed up code reviews.
- Composed SQL queries and dashboards for tracking operational metrics and availability, investigating incidents, and understanding customer usage.
- Developed a reusable AWS Cloudformation library to create Lambda and Kinesis data pipeline.
- Mentored and onboarded new team members, at both junior and senior levels, including onboarding someone in their first engineering position as I was onboarding to a new team myself.
- Created software architecture documents and provided feedback on technical proposals.
- Wrote rubrics for engineer and manager interview panels to assess technical competency and DEI efforts. Advocated to remove unnecessary requirements that discourage underrepresented candidates.

**HUGE – Software Engineer** July 2016 - January 2018

- Became lead engineer on Google Cloud site, using Google Closure to write clean, reusable modules.
- Worked on interactive data visualization and decision making tool with React/Redux, Node/Express.
- Developed schemas for content management and localization.
- Collaborated with designers and a distributed team of engineers, designed git workflows.
- Initiated and built Python/Flask server for [Notifica](#) app with non-profit. [Wired](#) | [Rolling Stone](#) | [NPR](#)

**BANK INFORMATION CENTER – Information Services Coordinator** September 2013 – August 2015

- Maintained Wordpress website, coordinated technology infrastructure across offices.
  - Organized civil society actions for transparency & accountability at international financial institutions.
  - Designed newsletters, reports, and materials for actions.
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## VOLUNTEER WORK

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**BAYGEO – 2016-present** Board member of professional organization for Bay Area geospatial community.

**TECHTONICA – 2016-present** Mentor for women & non-binary adults learning to code.

**ANTI-EVICTION MAPPING PROJECT – 2016** Automated cleaning & geocoding data with Python, GDAL.