

# Margaret Sy

Software Engineer

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## Experience

10/2018– **Developer Tools / Build, Databricks.**

Present Data science platform built on Apache Spark

- Write tools for reading code, writing code, iterative development, testing, code review, continuous integration and deployment to improve the developer experience for all Databricks engineers.

07/2017– **Tools and Infrastructure, Mesosphere.**

08/2018 Provider of DC/OS, a cloud platform for containerized, data-intensive applications

- Facilitate engineering work by writing and improving pytest-based integration testing frameworks, CI setup, and CLI and web-based tools in Python for testing DC/OS.
- Debug issues that span the stack from machine image build configuration to microservice deployment while monitoring development blockers for patterns that could be mitigated by process changes.

04/2016– **Internal Infrastructure Team, Swift Navigation.**

06/2017 Centimeter-accurate GPS for autonomous vehicles

- Infrastructure: (AWS, Docker) Deployment and maintenance of data capture and analysis pipeline for firmware performance metrics collection and hardware-in-the-loop testing. Configured development environments for projects and wrote system documentation.
- Data Analysis: (Python - pandas, numpy) Implement tests for creation of metrics to analyze receiver output as specified by GNSS algorithms and firmware teams.
- Scripting: (Python) Data capture interfaces for GPS receivers in desktop console and on-site server rack.
- Web: (ReactJS, Redux) Ported the interface for running test jobs from a fractal of bash scripts to a ReactJS webapp with integration into GitHub workflow.

06/2013– **Data Science Intern, TIER Research Group, UC Berkeley.**

08/2013 Technology and infrastructure for emerging regions

- Collect tweets using Twitter API from a national power company's customer service feed. Identified tweets containing outage information using a Naive Bayes classifier, parsed and inferred locations of tweets based on unstructured text content.

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## Education

Class of 2015 **BA, Computer Science, University of California, Berkeley.**

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## Skills

Languages: Most work experience in Python and Bash, but comfortable with work involving less familiar programming languages e.g. C, Java, Scala, Haskell

Other: Experience with Git workflow for large open source projects, working in Linux environments, cloud services (particularly AWS ecosystem), Continuous Integration (Travis, TeamCity, Jenkins, Datadog), Bazel, Docker, PostgreSQL