

# Rachelle Mariano

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mariano.dev

## Experience:

**Software Engineer: Klaviyo, Boston, MA**

**10/2017 - Current**

- Building Python3, Kubernetes-deployed microservice for managing catalog data
  - Handles 1 billion requests weekly with 99.99% of requests within SLO latency of 500 ms
  - Services dynamic email sending requests for products within radius of recipient
- Built Back in Stock notifications for Shopify integrations
  - Built storefront JS widget with dynamic button/form display for out of stock variants
  - Services ~ 35,000 new subscriptions and accounts for ~\$70,000 in customer revenue daily
- Built webhook support for BigCommerce integrations
  - Currently services ~1 million webhooks daily
  - Reduced product webhook callbacks ~7x by aggregating duplicate IDs in Redis
- Built custom schema service
  - Built CRUD API with Django Rest Framework
  - In alpha testing with 20 companies and currently supports over 2.8 million records

## Skills:

**Languages:** Python (Django), Javascript (React)

**Infrastructure:** MySQL, PostgreSQL (PostGIS), AWS, Kubernetes, Terraform, Grafana

## Education:

**Harvard University, Cambridge, MA**

**09/2015 – 06/2017**

Master of Arts in Biological and Biomedical Sciences

NSF Fellow: 2016-2017

- Conducted research on axolotl limb regeneration:
  - Processed raw sequencing data and reduced dimensionality from 100,000+ to 2-D
  - Performed unsupervised clustering to realize biologically-relevant cell subpopulations

**University of Miami, Coral Gables, FL**

**08/2011 – 05/2015**

Bachelor of Science in Computer Science and Biochemistry

GPA: 4.0, General Honors, Minors in Mathematics, Chemistry, and French