Sam Fonseca

- Experienced QA Engineer, with a focus on test automation and system architecture quality
- Currently seeking junior-level backend developer or software engineer in test position
- Active participant in the Python and Go open-source communities.

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EXPERIENCE

CrowdTwist, New York — *QA Engineer*

JUNE 2016 - PRESENT

- Working full-time on end-to-end and integration level test automation since February
- Maintaining and updating test cases affected by changes in the current sprint in order to keep test results accurate
- Eliminating brittle tests and reducing overall execution time of our Selenium test suite by mocking out the back-end server in select locations
- Developed a framework for end-to-end testing of batch jobs, an important but poorly tested piece of our system
- Automated all manual regression testing for batch jobs, which reduced the time needed to verify a release by a full day

Bypass Mobile, Austin — *QA Engineer*

OCTOBER 2014 - APRIL 2016

- Participated in technical design and implementation of Bypass' custom MDM system, to allow centralized control of software versioning and distribution independent from Google Play Store
- Maintained uniform quality standards on all Bypass software despite a wide range of customer configurations, device types, OS versions, hardware devices, network types and more
- Developed a modern automated testing suite with a focus on testing across independent microservices and application infrastructure
- Individually ran QA on Bypass' full reporting suite after switching from an in-house reporting system to a third-party offering
- Supported numerous non-traditional Android behaviors and uses, such as Ethernet connections, USB and network-based printers, and multi-APK applications
- Promoted the use of custom developed testing tools, such as a HTTP proxy and AWS-based load tester

SKILLS

Python – 5 years
- django
- asyncio
- boto3
- flask
- py.test
- sqlalchemy
- requests
- paramiko

Go – 2 years
- grpc
- gorilla toolkit
- boltdb
- net/http

Databases – 1–3 years
- MySQL/Aurora
- Oracle
- MongoDB
- Redis
- Neo4j

Test Automation – 3 years
- Selenium
- Appium

Amazon Web Services – 3 years
- EC2
- S3
- RDS
- DynamoDB
- Route53
- Kinesis
- SQS
- ECS
- Lambda

EDUCATION

University of Texas at Austin, Austin — *Finance*

AUGUST 2011 - MAY 2014

Left after completing 76 credit hours to accept a full-time employment opportunity at Bypass Mobile

OPEN-SOURCE PROJECTS

[slow_cooker](#) — *Contributor*

A load tester focused on life cycle issues and long-running tests

- Implemented an embedded lua VM to allow users to dynamically generate and modify request data through a lua script

[Flipadelphia](#) — *Owner*

A high-performance feature flipping service written in Go

- Designed to replace Bypass' previous Ruby/Sinatra/Redis-based feature flipping service
- Reduced average response time on read-only requests by roughly 75%
- Eliminated all external service dependencies by replacing Redis with BoltDB for persistence
- Implemented mock persistence layer to allow testing of application logic through dependency injection

[Beeswithmachineguns](#) — *Contributor*

A utility for arming (creating) many bees (micro EC2 instances) to attack (load test) targets (web applications)

- Top contributor by additions in 2015 to projects with ~3000 stars on GitHub
- Led refactor to add python3 support
- Contributed numerous bug fixes

[Dingo](#) — *Contributor*

A lightweight blog engine written in Go

- Contributed JWT auth system to facilitate refactor of Dingo's admin interface from template rendering to a AJAX based app