Matthew Barga

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SUMMARY

Curious Python engineer with more than 8 years of experience in web development.
I enjoy working within the Python ecosystem, but try not to silo myself into a single job description. Sticking to solid coding principles and using simple, well-understood tools is important in building stable products that in turn allow a team to focus their attention on delivering business value.

SKILLS

Languages:	Python; Some exposure to Java, Scala, Go
Python Ecosystem:	Flask, Django, FastAPI, asyncio, celery, numpy, pandas, mypy
Cloud and Devops:	AWS, GCP, Kubernetes, Docker, Terraform, CircleCI
Data:	BigQuery, Redshift, Apache Beam
Other:	SQL, Elasticsearch, Kafka, Redis, Prometheus

Source code samples are available on my github (username: mbarga)

EXPERIENCE

Senior Python Engineer - Cookpad Global, Bristol, UK ....**Dec 2021 - Present**
- Deliver new text-search related features to our global web portal users (Django, FastAPI)
- Designed and implemented analytics dashboards interfacing with our data warehouse (pandas, Opensearch, Django)
- Deploy and manage Kafka infrastructure including defining Avro schemas
- Devops and infrastructure management with Kubernetes, Terraform, Docker and CircleCI

Python Engineer (Backend) - commercetools, Berlin, Germany ....**July 2018 - Dec 2021**
- Designed and built image-based product search endpoint
- Productionized and scaled APIs around machine learning models for the core platform (Python3/Flask)
- Lead initiative to build a Data Analytics team delivering data pipelines for internal analytics
- Interviewed and onboarded new members for the growing Data Analytics team

Data Scientist - AXA Life, Tokyo, Japan ....**May 2016 - July 2018**
- Data scientist with AXA Life Insurance (Python, SQL, Spark, Hadoop, Hive)
- Developed cross-selling models that realized up to 4x product uplift to meet target KPIs
- Implemented and maintained ETL pipelines on a group-wide datalake platform to ingest, clean, and generate structured data tables from raw text sources
- Generated reports on findings based on statistical analyses of business data

Software Engineer (Fullstack) - Rakuten, Tokyo, Japan ....**Apr. 2015 - May 2016**
- Developer on Rakuten DSP digital marketing web service (Java/Spring, Javascript)
- Extended application to integrate with new third party APIs for batch/real-time ad data ingestion
- Implemented new endpoints for the core REST API
- Ad-hoc reporting and ETL pipeline for 50TB of digital clickstream data (Hadoop, Hive, Spark)

Software Engineer (Backend) - Capy, Tokyo, Japan ....**Dec. 2013 - Mar. 2015**
- Developed web application for an internet security startup in Tokyo (Python/Django, 300k requests/day)
- Brainstorming and implementation of enhancements for the core captcha tool resulting in a 10% decrease in undesired captcha successes by spam bots

EDUCATION

The University of Tokyo, Tokyo, Japan ....**Sep. 2014**

Master of Science - Computer Science

Purdue University, West Lafayette, Indiana ....**May 2011**

Bachelor of Science - Computer Engineering; Minor in Mathematics