Matthew Barga

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SUMMARY

Curious Python engineer with more than 5 years of experience in web development.
Some things I believe in: API first design, scalable microservice architecture, cloud native deployments, TDD and Agile methodology.

SKILLS

Languages: Python, Java, Scala (beginner)
Cloud: Kubernetes, Docker, PubSub, Terraform
Source code samples are available on my github (username: mbarga)

EXPERIENCE

Senior Python Engineer - Cookpad Global, Bristol, UK ....**Dec 2021 - Present**
- Deliver new features for global Community Managers using our Django and FastAPI apps
- Direct communication with local Community Managers to understand their search problems and improve the search experience (Elasticsearch)
- Deploy and manage Kafka infrastructure including defining Avro schemas

Python Engineer (Backend) - commercetools, Berlin, Germany ....**July 2018 - Dec 2021**
- Designed and built scalable image based product search endpoint utilizing user uploaded images as input
- Lead initiative to build a data analytics team tasked with establishing ETL pipelines to support internal analytics
- Communicate results to stakeholders and product users from diverse backgrounds

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 and 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

ACTIVITIES

Continuing study (MOOC) in functional programming (Scala/Rust)
Regular member of Berlin tech meetup groups