

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, Scala(beginner) Frameworks: Flask, pandas Cloud: Kubernetes, Docker, Google Cloud, Terraform Big Data: Spark, BigQuery <i>Source code samples are available on my github (username: mbarga)</i> |
| EXPERIENCE | Python Engineer - commercetools, Berlin, Germany July 2018 - Present <ul style="list-style-type: none">• Design, build, and deploy scalable machine learning APIs (Python/Flask)• Make informed choices on preprocessing methods, feature engineering, and modeling techniques• Communicate results to stakeholders and product users from diverse backgrounds Data Scientist - AXA Life, Tokyo, Japan May 2016 - July 2018 <ul style="list-style-type: none">• 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 - Rakuten, Tokyo, Japan Apr. 2015 - May 2016 <ul style="list-style-type: none">• Fullstack developer for 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 (TrueView, Mediamath)• 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 - Capy, Tokyo, Japan Dec. 2013 - Mar. 2015 <ul style="list-style-type: none">• 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 <i>Master of Science - Computer Science (advisor: Reiji Suda)</i> Purdue University , West Lafayette, Indiana May 2011 <i>Bachelor of Science - Computer Engineering; Minor in Mathematics</i> |
| ACTIVITIES | Continuing study (MOOC) in functional programming (Scala) and data engineering Hands on Tokyo volunteer |
| HONORS | Japanese Govt. Monbukagakusho (MEXT) Research Scholarship |