GUANG YANG

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EXPERIENCE

MYTHIC, INC, Redwood City, CA

Senior Deep Learning Engineer   Sep 2018 – Present

Mythic is creating first-of-its-kind mixed signal chip to speed up neural network inference on the edge. As part of the software team:

- Developing Keras-based quantization tool that models and mitigates hardware effects during training
- Improving in-house Single Shot Multibox Detector (SSD) customized for our hardware
- Built a large labeled video dataset (>5M annotations) by creating specs, working with contractors, and setting up data ingestion/processing

INSIGHT DATA SCIENCE, Palo Alto, CA

Artificial Intelligence Fellow   Jun 2018 – Aug 2018

- Building an end-to-end system that changes the style of the input voice data using neural networks, kubernetes, and AWS

KOMODO HEALTH, San Francisco, CA

Data Engineer   Mar 2015 – May 2017

As employee #3, I have had the opportunity to add value in different parts of the engineering stack, from scratch:

- Designed and implemented distributed (Spark, S3) and automated (Airflow) data pipelines that process multiple external data sources to deliver mission-critical insights to end-users
- Led implementation of internal services (containerized Flask APIs deployed on Kubernetes) that improve transparency (domain-knowledge driven data metrics tracking) and automation (config and metadata tracking)
- Built and maintained the data infrastructure (AWS, Spark, Airflow, internal services) that support the data team (13+ developers), leveraging container technologies (Kubernetes, Docker)
- Worked with architect and product managers to define requirements and roadmap for scalability of data deployment, data ingestion and internal tooling.

BERKELEY COMPUTATIONAL OPTIMIZATION LAB, Berkeley, CA

Graduate Student Researcher   Aug 2013 – May 2014

- Formulated and implemented an algorithm to analyze exact reachability for skew-line needle planning in automated brachytherapy
- Published results in an article for the IEEE CASE 2014 Conference

TECHNICAL

- *Languages*: Python, SQL, shell
- *Frameworks*: Keras, Tensorflow, Spark, Airflow, Postgres, Flask, etcd
- *Infrastructure*: AWS (architecture, networking), Kubernetes, Docker

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY, Berkeley, CA

M.S. in Industrial Engineering & Operations Research   Dec 2014

- Awarded UC Berkeley Graduate Fellowship

RICE UNIVERSITY, Houston, TX

B.A. in Computational and Applied Mathematics (CAAM)   May 2013

- Awarded CAAM-Chevron Undergraduate Research Prize