Xinyue Ou

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Programming Skills

- **Languages**: C/C++, Python, Go, Java, Ocaml, Scala, Javascript, HTML/CSS, SQL.
- **Skills**: Large Scale Distributed System, Optimization, Multiprogramming
- **Tools**: Git, TensorFlow, PyTorch, Docker, Gradle, Maven, Django, ProtoBuf, Flume, gRPC.

Experience

- **Google, Inc.** — Mountain View, CA
  Software Engineer @ Youtube Ads Infrastructure — *May 2019 – Now*
  - Led the design and implementation for Youtube Ads next generation build pipeline.
  - Applied multiple optimizations to reduce the system's overall E2E latency to less than 5 minutes and its GCU usage by more than 50%.
  - Launched a campaign ROI improvement initiative. Achieved a 2.5% pCPD gain for remarketing campaigns.
  - Boosted Server efficiency by rebalancing processing between serving and build pipelines. Achieved 70% reduction of data loading time.
  - Designed and implemented emergency handling and production health maintenance procedures. Led and conducted release improvement which cut down release time by 50%.
  - Established E2E testing and regression testing framework for the Youtube Ads serving and build pipelines.

- **Google, Inc.** — Mountain View, CA
  Software Engineer Intern @ Display Ads Infrastructure — *June 2018 – Sept 2018*
  - Developed a data pipeline in **Flume** to generate user profile digest for ads recommendation, fixing 75% missing data generation and traffic tracking.
  - Deployed 10+ jobs through **Borg** and executed phased rollout.
  - Implemented an web UI using **Django** to monitor results of petabyte scale data service.

- **Intel Asia-Pacific R&D Center** — Shanghai, China
  Software Engineer Intern @ BigDL Data Analytics — *Feb 2017 – July 2017*
  - Used Bash and Python to efficiently port Neural Network modules from Scala to Python.
  - Designed memory shared mechanism for buffers in Neural Network modules that saves 50% of memory usage.
  - Built a graph converter in Scala that converts machine learning models into graphs to accelerate the training of NN modules.

- **Ailibi Medical Technology Co.** — Shanghai, China
  Software Engineer Intern — *Dec 2014 – Feb 2015*
  - Built and maintained the company's official website, which is a responsive website that is optimized for both desktop and mobile devices.
  - Conducted user requirements and specification investigation for the company's mobile app.

Education

- **University of California, San Diego** — La Jolla, CA
  Master of Science in Computer Science — *Sept 2017 – Mar 2019*
  - **Courses:** Operating Systems, Security, Database, Networked Systems, Neural Networks, Parallel Computing.

- **Shanghai Jiao Tong University** — Shanghai, China
  Bachelor of Science in Electrical and Computer Engineering — *Sept 2013 – Aug 2017*