Yuchuan Gou

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Seeking a **full-time Software Engineer job** in a leading technology company

Education Background

University of Florida

M.S. in Computer Science **GPA**: 3.43

08/2016--05/2018

Graduate Courses: Analysis of Algorithms, Deep Learning, Advanced Data Structure, Big Data

Shanghai Jiao Tong University (top 4), China

B.S. in Information Engineering

09/2012--07/2016

Relevant Courses: Mathematics, Data Structure, Operating System, Computer Network, Data Base

Work & Research Experience

Software Development Engineer, CV team, PingAn Technology US Research Lab

06/2018—Present

- Developed the full-cycle pipeline for GAN painting generation engine: 1) Multi-thread paintings crawler, data pre-processing, model training pipeline; 2) Inference API development and Flask RESTful web demo.
- Implemented CNNMRF style transfer model in Pytorch: 1) reduced inference time **by 86%**; 2) added multi-GPU computing support; 3) increased the image max size support **from 384^2 to 2048^2**.
- Designed an image quick searching algorithm in Tensorflow, utilized CNN backbone for feature extraction and max k feature vectors to compute similarity, achieved **150ms** run-time performance for 1024^2 image.
- Built an AI drawing board web app which can translate user input label to painting images, trained NVIDIA GauGAN model as backend service, implemented web UI with Drawingboard.js, jQuery, Flask.
- Research on GAN model quality improvement, utilized LSTM text embedding attention and segmentation spatial attention, increased IS Score **from 4.4 to 4.8**, planning to submit to CVPR. (Pytorch)

Software Development Engineer Intern, Deep Learning team, Intel

05/2017-08/2017

- Conducted several CNN model inference testing (from different Intel deep learning backbone) for Intel's customers.
- Contributed to Intel/ Theano Github repo: 1) Wrote 2 Theano operations with Intel MKL library (C, Python).
 wrote "Theano-perf" module for testing performance, including benchmark, CPU, disk, memory testing.

Campus Full-Stack Web Developer, Information Technology, UF/IFAS

11/2016--05/2017

- Developed an official website for Florida plants and butterflies. Realized login, bookmark, display, edit functions based on SQL database with C#. (jQuery, ASP.NET MVC, C#, SQL Server) https://ffl.ifas.ufl.edu/butterflies/
- Implemented a geo-locating web app to display the fertilizer map of Florida. Applied Google Maps API and built responsive web UI and map components with Materialize, JavaScript. https://ffl.ifas.ufl.edu/Fertilizer/

Campus Research Assistant, Intelligent Internet of Things, SJTU

10/2015--07/2016

Built a distributed streaming log data processing pipeline calculating every 2s for real-time website analysis (including page view, user region, user status). Using Flume to gather server log data, Kafka to ingest data stream. Designed a streaming data processing engine with Spark Streaming.

Projects

P2P file sharing software (Group Project, Java)

Used Java multi-thread, TCP/IP connection to realize P2P file sharing core, implemented P2P handshake, sending message, speed measuring and choke & unchoke mechanism.

Full-Stack Ranking Website (Individual Project, RESTful, Python, Django, JQuery, Bootstrap)

Built a **RESTful** webserver to rank popular deep learning frameworks. Real-time gathering frames' info by sending post to Github API, storing data in sqlite3 and providing dynamic ranking and charts using JQuery, Bootstrap.

Distributed Web Crawler (Individual Project, Python, Scrapy)

Built a distributed web crawler pipeline contains multiple spider instances sharing a single Redis queue. Using Xpath, CSS selector, regular expression for parsing content and using requests library for signing in.

Professional Skills

- Languages: Python, Java, C++, JavaScript, Scala, SQL, HTML, CSS;
- Frameworks: Pytorch, Tensorflow, Flask, Spark, Bootstrap, jQuery, Django, ASP.NET, Junit;