PuDong
Shanghai China

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Employment

Software Engineer **BlackLake** **2016/11 - Now**

- Developed manufacturing execution system from stracth, designed and implemented core backend services.
- Developed data syncing service for syncing MySQL data into ElasticSearch automatically, which is the fundamental compoment of all searching service and tracing service.
- Improved data history tracing system by using adaptive data schema, reduced 80% disk space and 30% api latency.
- Developed file service with switchable storage services (AWS S3, QINIU and MinIO).
- Developed job scheduling service for making business intelligence data report.
- Developed customizable concurrency limiter library for protecting key OPEN HTTP API.
- Developed object tracking prototype with YOLOv3 and NVIDIA JETSON.
- Leaded backend team to migrate from NodeJS/ExpressJS to Kotlin/Spring.
- Leveragedskills:Java,Kotlin,NodeJS,ExpressJS,MySQL,ElasticSearch,Redis,Kafka,SpringBoot,Spring Cloud, Kubernetes, Tensorflow.

Software Engineer, Intern **IBM CRL** **2015/7 - 2016/1**

- Developed health care service prototype with multi-tenancy architecture from stracth (full stack).
- Utilized Echart to visualize biological data. Raspberry pi as sensor gateway; RabbitMQ as pub/sub channel.
- Developed event-driven engine by Node-RED for emergency alerting feature.
- Leveraged skills: Java, NodeJS, React, EChart, MySQL, RabbitMQ.

Teaching Assistant **Shanghaitech University** **2015/2 - 2015/7**

- Courses: Introduction to information Technology.
- Build a website for teaching students algorithms and data structure. https://suanfa.herokuapp.com/

Education

Shanghai, China **Shanghaitech University** **2014/8 – 2017/5**

- M.S.E. in Information Science and Technology, May 2017. GPA: 3.5
- Course: Algorithms; Machine Learning; Computer Vision; Compressed Sensing; Matrix Analysis; Digital Signal Processing; Robotics; Entrepreneurship.
- Research Topic: Convolutional Recurrent Neural Network-based Channel Equalization.
- Reward: Thrid Prize in National Post-Graduate Mathematical Contest in Modeling

Nanjing, China **Southeast University** **2010/8 – 2014/6**

- B.S.E. in Information Science and Technology, June 2014. GPA: 3.6.
- Course: Digital Circuit; Analog Circuit; Communication Theory; Signals and Systems; Digital Signal Processing; Computer Organization And Architecture.
- Reward: Thrid Prize in National Undergraduate Electronics Design Contest.

Technical Experience

Side projects

- **Website for Algorithms** (2015) https://suanfa.herokuapp.com/
- **Gituser - command line tool for github user profile** (2016) https://github.com/chenminhua/gituser
- **RNGIT - A github mobile app** (2016) https://github.com/chenminhua/RNGIT
- **Pin - A clipboard on network** (2019) https://github.com/chenminhua/pin
- **Github** (2014 - Now) https://github.com/chenminhua
- **Personal Blog** (2015 - Now) https://chenminhua.github.io

Skills

- **Programming Language** Java; C; Python; JavaScript; Golang;
- **Web Framework** Spring; Flask; ExpressJS;
- **Database** MySQL; Redis;
- **Miscellaneous** Kafka; Elastic search; Git; Kubernetes; Docker;