YANFEI YANG

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Education Background

2014/09 - 2018/06	Nanjing University	Software Engineering	**Bachelor**
		- GPA: 4.49/5.0	**- Ranking : 3/210**
2018/07 - 2021/03	Shanghai Jiao Tong University	Software Engineering	**Master**

Campus Experience

2015/06 - 2016/06	Organization Department, School of Software, Nanjing University	**Minister**
2015/06 - 2016/06	Volleyball Team of School of Software, Nanjing University	**Captain**

Honors

2015/12 **First Class of National Scholarship**

2016/12 Dusha Scholarship of Nanjing University (One of the highest scholarships)

2018/06 Outstanding Graduates of Nanjing University

2018/12 Third Prize of the "Huawei Cup" 15th China Graduate Mathematical Modeling

2019/12 Outstanding Graduate Scholarship of Shanghai Jiao Tong University

Major Projects and Internship Experience

2017/07 - 2017/09 **Internship in Taobao Technology Department, Alibaba**

- Open Taobao's internal messaging capabilities (subscription, communication, etc.) to external developers, responsible for routing, authentication, and retrying of messages.
- Designing a pure-asynchronized service schema and implemented with RxJava. Using some distributed systems to deploy the service. **(Java)**

2018/09 - 2019/09 **A CPU-Effective Garbage Collector for Tail-latency Optimization**

- Combining Intel MPK and HTM hardware features on the JVM, a concurrent garbage collector is implemented that maximizes throughput and reduces CPU utilization while reducing the maximum GC pause time. In tests such as SPECJBB and YCSB, it has higher throughput and lower CPU utilization than G1, and has similar pause times.
- Modify the interpreter of JVM and contribute to some optimizations. And test the performance on Cassandra and HBase with YCSB benchmark. **(C++)**

2019/09 - Now **A NVM-Aware Garbage Collector**

- Utilize smaller volatile memory (DRAM) to assist garbage collection and improve the garbage collection performance of the JVM when using non-volatile memory(NVM).
- Responsible for the design of the project, and implement based on G1 GC of hotspot with very large codebase(Millions LOC). Using Intel VTune for performance analysis, and using a large number of automated scripts for testing and analysis. Currently it has 50% performance improvement on the Renaissance benchmark. **(C++)**

Other Projects and Internship Experience

2016/06-2016/10	"Citi Cup" Financial Innovation Application Competition (2nd Prize)**(Java)**
2016/12-2017/06	Tencent We-School - the “Leaning In NJU” Service Platform.**(Java)**
2017/10-2018/03	Internship in Blackfish Technology, Risk Control Department.**(Python)**
2017/12-2018/04	A Tracing System Based on Blockchain.**(Golang)**

Skill Tag

Java, Python, C/C++, Shell, Algorithm, Machine Learning, Distributed System, Language Runtime, JVM, Hardware, Operating System, Profiling/Debugging.