

# ZHONGWEI (LUKE) LI

DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE

## EXPERIENCES

- 2020.02  
|  
Present
- **Post Doctoral Fellowship**  
@ABACUS Lab 📍 UT Arlington
- Build a complex, multi-tier job scheduler for modern large scale super computing clusters.
  - JADE scheduler is a high performance & light-weighted solution, designed with heterogeneous distributed environment in mind.
- 2013.01  
|  
2019.12
- **Teaching/Research Assistant**  
@SERC Lab 📍 UT Arlington
- Supervised research on resource provisioning of high-performance computing clusters.
  - Performance modeling of data analytics platforms including Hadoop MapReduce & Spark.
- 2010.08  
|  
2012.12
- **Research Assistant**  
@Bioinformatics Lab 📍 SUBR
- Run molecular dynamics simulations on LONI super-computing cluster, focusing on experiments design, data collection & statistical analysis.

## SELECTED PROJECTS

- Active
- **JADE**  
@ABACUS Lab
- A multi-tier high performance job scheduler in the heterogeneous distributed computing environment.
  - Tech Stack ~~X~~ Java • Go • Kubernetes Clients API • K3S • Kubeedge • Docker & Container • Bash Script
- GA
- **Pigeon**  
@ABACUS Lab
- An efficient distributed hierarchical datacenter job scheduler out-performs existing solutions.
  - Tech Stack ~~X~~ Java • Python • Maven • Thrift RPC • AWS Boto • Bash Script • Spark
- GA
- **IPSO**  
@SERC Lab
- A performance model derived from Amdahl/Gustafson's Law for data analytics platforms with great enhancement in prediction accuracy.
  - Tech Stack ~~X~~ Java • Spark • Hadoop • Wolfram Language Scripts
- GA
- **Intern**  
@Illumi.co
- Team work on the Android & Android watch app.
  - Tech Stack ~~X~~ Java • Android SDK • Scala
- Active
- **Bling-blings**  
Github Repo
- My blog plus bug-free solutions to some interesting algorithms/math problems (constantly updating).

## EDUCATION

- 2006.09  
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2010.07
- **Bachelor of Science in Mathematics and Applied Math**  
Dalian University of Technology 📍 Dalian, China
- "You are very smart, but you didn't spend enough efforts" -- said my mentor Dr. Tao in college.
- 2010.08  
|  
2012.12
- **Master of Science in Computer Science**  
Southern University and A&M College 📍 Louisiana, USA
- "Always remember that you are a scientist, so think as one" -- said my professor Dr. Nigel Gwee.
- 2013.01  
|  
2019.12
- **Ph.D in Computer Science**  
University of Texas at Arlington 📍 Texas, USA
- "In my over twenty years of being professor and committee member, I've never seen such a defense. Good job!" -- said my supervisor Prof. Hong Jiang.

## CONTACT INFO

🐱 [github.com/ruby-](https://github.com/ruby-)  
🏠 [ruby-.github.io](https://ruby-.github.io)  
in [/in/zhongweili1987](https://in.zhongweili1987)  
✉ [zhongwei.li@mavs.uta.edu](mailto:zhongwei.li@mavs.uta.edu)  
☎ 682-552-6667



## POWER

📦 Hadoop & Spark  
📦 Java & Scala  
📦 Android & iOS Dev.  
📦 Git & Github  
📦 C++/C, Python  
📦 Go <sup>new!</sup>

## WORK EFFICIENCY

📄 VIM, Eclipse, IntelliJ  
📊 Mathematica  
☁ AWS, Azure, GCP  
🚢 Docker & Kubernetes  
🖥 Visual Studio, Office 365  
🍏 Xcode