

# ZHONGWEI (LUKE) LI

DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE

## EXPERIENCES

- 2020.08  
|  
2021.02
- **Interium Instructor**  
@Department of computer science and Information System  
• Teaching [CSCI428]OOP with Java, [CSCI2325]Intro to ML&Digital Logics, [CSCI325]Digital Forensics  
📍 TAMUC
- 2020.02  
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Present
- **Post Doctoral Fellowship**  
@ABACUS Lab  
• 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.  
📍 UT Arlington
- 2013.01  
|  
2019.12
- **Teaching/Research Assistant**  
@SERC Lab  
• Supervised research on resource provisioning of high-performance computing clusters.  
• Performance modeling of data analytics platforms including Hadoop MapReduce & Spark.  
📍 UT Arlington
- 2010.08  
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2012.12
- **Research Assistant**  
@Bioinformatics Lab  
• Run molecular dynamics simulations on LONI super-computing cluster, focusing on experiments design, data collection & statistical analysis.  
📍 SUBR

## 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

## 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

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CN: (+86)18004282688



## POWER

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

## WORK EFFICIENCY

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