

Mo Ying



Senior Software Engineer, IBM
<https://github.com/morningspace/>
<https://morningspace.github.io/>
<https://morningspace.medium.com/>

Summary

- 15+ years software design and development experience with strong problem solving skill and quick learning on emerging techniques.
- Strong leadership with structured coaching and mentoring skills for building innovative technical team culture.
- Rich community experience both inside and outside the company as technique advocator with several publications and self-hosted sites open to the public.
- Solid hands-on skills on full stack development with high code quality.

Specialties: cloud native, Kubernetes, full stack development.

Experience

Senior Software Engineer, Jul 2018 - Present (3 year 5 months)

As tech lead of server foundation squad for Cloud Pak for Multi-Cloud Management and Cloud Pak for Watson AIOps in Cloud BU. Major focus is ranging from AIOps, Multi-cloud Management, to Cloud Native Application Monitoring. Recent work is on GitOps and Crossplane adoption in production and landing in China Lab by working across BU teams and opensource community. (<https://sched.co/pcdv>)

Lead Developer, Oct 2016 - Jul 2018 (1 year 10 months)

As lead developer of IBM Connections, work with world-wide architects to define system architecture, development process, etc. Promote new technology with innovative idea to the product, and help teams warm up new tech stack by designing hands-on workshops.

As one of the few global code committers, oversee all git repositories for each squad on daily basis to ensure consistent coding convention, assist their incubation to production, work with dev to review and merge pull requests, help teams achieve high code quality by raising bar to 100% code coverage.

As lead of a few squads at different time, lead design and development of microservices using Node.js, React, Redis, MongoDB, Elasticsearch, etc., contribute code directly by writing common libs, deploy microservices as Docker containers using Kubernetes to AWS, IBM Cloud Private via CI/CD.

As one of global PagerDuty responders, is on call every few weeks or weekends for urgent customer crises on Cloud across 3 global data centers. Help on system troubleshooting as dev representative via New Relic, Log Entries, ELK, etc.

Advisory Software Engineer, Nov 2011 - Mar 2013 (1 year 5 months)

As tech lead of an IBM Connections component for 3+ years, lead global team members from US and Ireland for the first 7 months, then take full ownership with a local team. As the only local dev for the

first 3 months, keep up high productivity with 1~2 defects fixed per day. Handled half incoming defects to the team in the first year. Lead the team on application and DB2 performance tune-up to meet a big customer's requirements for 2 years.

As an architect of another IBM Connections component for massive application metrics collecting and reporting using event-based approach with Elasticsearch as backend engine, designed and implemented service containerization, security enforcement, data backup/restore and migration, system upgrade, load balancing, performance tune-up and monitoring solutions, both for cloud and on-premises deliveries, also involved feature development and bug fix.

As core member in IBM Connections Common UI team for 1+ year, work in a global team to build UI foundation that serves other components using OSGi, Dojo, AMD, etc. Highly impressed by the world-wide leaders because of quick learning and strong debugging skills. As go-to person on wide areas, was recognized as OAuth Initiative Leader to drive OAuth adoption in production.

Staff Software Engineer at IBM, Jul 2008 - Oct 2011 (3 years 4 months)

Work with world-wide colleagues to create a plug fest demo for CMIS, an OASIS standard. As C++ developer in Lotus Quickr for Domino team to fix critical customer issues, then core Java developer in Lotus Quickr for Portal team to build REST services for 2 years, then as key frontend developer in IBM Connections Files team to build Files UI for 1 year.

Projects

Loopback微讲堂, Mar 2018 – Jul 2018

Invited as speaker by IBM开源技术微讲堂 to deliver course on Loopback, a Node.js framework for building APIs and microservices: <https://morningspace.github.io/lab-loopback>.

Customer Agile Consulting Project, Jun 2010 - Aug. 2010

As agile consultant delivered consulting service to a customer, the biggest telecom service provider in China. The project was selected as role model at Excellent Services Delivery Campaign by IBM, 2011.

Instructor, eMentor of IBM UTP, 2010 – 2012

Joined IBM UTP program since 2010, as an instructor to deliver courses and lectures to universities in China, e.g.: Zhejiang University, Fudan University, Hunan University, Beijing Capital University, Sun Yet-Sen University, Beijing Institute of Technology, etc.

Publications

相关性搜索, 电子工业出版社, 2017. 10

赢在社交商务, 电子工业出版社, 2013. 8

集体智慧编程(中文版), 电子工业出版社, 2009. 1

开源技术选型手册, 电子工业出版社, 2008. 5

EJB 3.0 第五版(中文版), 电子工业出版社, 2007. 5

Honors and Awards

IBM Outstanding Technical Achievement Award, 2016

IBM Outstanding Contributor Award, 2013

IBM Manager's Choice Award, 2013, 2014

IBM Lotus Eminence & Excellence Award, 2011, 2013

IBM Lotus Top Customer Contribution Award, 2011

IBM Lotus Innovation Award, 2011

IBM Quality Software Engineering Community Leadership Award, 2013,2014

IBM Asia Pacific North Cluster Award, 2013

IBM China Outstanding University Ambassador Award, 2012, 2013

IBM CDL UTP Distinguished Instructor Award, 2012

《程序员》杂志社“最佳作者”, 2005

People Recommendations

I worked with Mo Ying during my first months as technical lead of the IBM Connections Common UI team. He is an experienced and knowledgeable software engineer and could comfortably switch from frontend to backend work, mastering JEE and being proficient with JavaScript, HTML and CSS. In recent years, he took over the OAuth initiative and demonstrated the ability to lead a team successfully driving the IBM Connections Activities component team through a strategic integration initiative.

— **Claudio Procida**, *Principal Software Engineer, Elastic*, worked directly with Mo at IBM

After several years of development and several releases of the Activities component of Lotus Connections, project development was transitioned to a team in Beijing, China, lead by Mo Ying ... This transition was eased greatly by Mo Ying's excellent command of English, his exceptional understanding of the technology and his pleasant and friendly personality. Mo Ying has great skills and competency in the Java/J2E area and a unique ability to bring ideas which solve difficult technical problems - from the UI all the way down the stack to the database SQL. He is always willing to listen to alternatives and discuss different solutions for efficiency and performance. Any group would benefit from having Mo Ying as a member.

— **Willie Arbuckle**, *Senior Software Engineer, IBM*, worked directly with Mo at IBM

I was testing Connections Activities when Mo Ying became tech lead. I was impressed by how quickly he had command of the product. Mo is very approachable & knowledgeable, and he was more than willing to share that knowledge.

— **Martha Sheehy**, *Advisory Software Engineer, IBM*, worked directly with Mo at IBM