

Yinsheng Zhou

SOFTWARE ENGINEERING EXPERT · CERTIFIED SCRUM MASTER

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Summary

Seasoned and accomplished software engineer and architect with a history of helping enterprises to realize their IT R&D capabilities, while improving the companies' productivity and revenue. Adept in coaching software engineering team to consistently maximize team's agility. As a tech leader, I am bringing forth an in-depth, detail-oriented, and forward-thinking perspective necessary to solve every problem encountered during the product or system development.

Education

National University of Singapore

Singapore

Ph.D. IN COMPUTER SCIENCE

Jul, 2008 - Mar, 2013

- Got a 4-year full scholarship to pursue Ph.D. and defended my thesis in 2012 and earned my degree in 2013. My doctoral dissertation topic is Collaborative Mobile-Learning Systems for Music Education and Training.
- Full time direct PhD program from Bachelor degree.

Fudan University

Shanghai, China

B.S. IN COMPUTER SCIENCE

Jul, 2004 - Jun, 2008

- Got student scholarships every year due to top ranking in academic performance.
- Attend national entrance examination (Gaokao) in China.

Experience

Lazada South East Asia Pte Ltd, Alibaba Group

Singapore

LEAD SOFTWARE ENGINEER

Mar, 2021 - Present

- Develop and manage 11 commercial data products for internal & external stakeholders with good user satisfaction.
- Consistently design and enhance the technical architecture to improve the product user experience, system stability, and developer efficiency.
 - Implemented entity change logging service based on Java serialization and use Java AOP to make it unintrusive on business logic.
 - Implemented staging and production data segregation solution using Mybatis plugin and Alibaba Druid.
 - Implemented database disaster recovery mechanism circuit breaking on master/backup database instances using sentinel library.
 - Improved API response time performance using cache, parallel processing, and SQL optimization by up to 35 times.
 - Developed using local test driven development, reusable software components, and low-code Function As a Service platform.
- Successfully build a pipeline of ETL data processing and machine learning model execution with Alibaba SchedulerX platform, in order to automate the process of model execution and data synchronization jobs for Lazada & Citibank Data Project and RedMart Price Kaki Project. It freed one developer from the mundane manual execution job so that he can spend more time on other projects.
- Monitor and report on the system stability issues by using monitoring dashboard and linux application logs.
- Split large and complex requirements into product increments, organize sprint planning sessions & standup, and assign tasks to developers.

Singapore Press Holdings

Singapore

PRINCIPAL ENGINEER, SOFTWARE

Jul, 2019 - Mar, 2021

- Worked with product managers and stakeholders to adopt the new market trend features into the products.
- Built fully automated CI/CD pipelines on AWS for containerized applications using Docker, AWS ECR and CodeDeploy.
- Designed a Behavior-Driven Rewards and Loyalty API SaaS product using the microservices architecture.
- Implemented several API microservices in Node.js Express and the Admin Portal in React/Redux.
- Deployed a centralized logging environment(ELK, CloudWatch, S3) which gather log data from docker containers and AWS resources.
- Zaobao Rewards Loyalty Programme won the Best in Audience Engagement in ADMA 2020. Since released to the market in Feb 2020, the program has lifted the audience engagement by 59%.
- Driving an interest group (Advanced Technology Lab) for AR/VR, AI, & blockchain technology in the media industry.

Circles.Life

Singapore

PRINCIPAL ENGINEER

Dec, 2018 - Jun, 2019

- Built, architected and led the development of the telco BSS (business support system) middleware, which sped up the reliability and performance by 10 times.
- Recruited principal engineers, engineering leads, and senior software engineers.
- Mentored other developers, and led and shared DevOps best practice.

Wirecard Asia Holding Pte. Ltd.

Singapore

SENIOR DEVELOPER

May, 2017 - Oct, 2018

- Implemented a data cleansing and verification platform in Node.js Express and Angular.JS for parsing regional merchant documents.
- Built data pipelines to migrate the data into the more structured data models in Data Warehouse.
- Designed and built D3.js widget to visualize and customize the enterprise entity hierarchy.
- Developed an automated massive parallel processing pipeline to calculate merchant transaction fees, which resulted in 20 times processing speed and 2 times cost reduction.

IBM

Singapore

ADVISORY SOFTWARE ENGINEER

Mar, 2013 - May, 2017

- Developed enterprise applications for two blockchain projects, which got public exposure in MAS FinTech Festival 2016.
- Responsible for the UX/UI conceptual design, UI and backend API implementation, application's continuous integration with cloud, and project management.
- Built an automated data ETL system, and developed a web app for real-time visualization of all the vessels and heat-map visualization of the congested areas in the Singapore port.
- Developed train simulation visualization module, passenger flow visualization in React based on origin-destination pair predictive analytics, and incident analytics module.
- Developed a solution on mobile platform for identifying dengue hotspots using the information collected by operators. Demonstrated the solution to show its capability of preventing dengue outbreak in advance.
- Developed a web search engine in React on Bluemix (PaaS) to make the local charity organizations more transparent and eventually help charity donors to donate more efficiently.

Skills

DevOps AWS, GCP, Docker, Kubernetes, Jenkins, Ansible, Git, Jira, CI/CD

Backend Spring, Spring Boot, Express, Django, REST API

Frontend React, Redux, Angular.js, Vue.js, D3.js, jQuery, Flutter

Database MySQL, PostgresSQL, MongoDB, Vertica

Programming Java, Python, Javascript, Ruby, Golang, LaTeX

Languages English, Chinese

Additional Work

Global Coding Bootcamps

Singapore

PART-TIME INSTRUCTOR

Mar, 2020 - Present

- Teaching web development and data science curriculums, including Javascript, Ruby, Python, scikit-learn, Express.JS, MongoDB, React, jQuery, algorithm, and coding interviews.

Certifications

Certified ScrumMaster (CSM)

International

SCRUM ALLIANCE

Issued Nov. 2020 · Expires Nov. 2022

- Credential ID: 001136451 and Credential URL

Honors & Awards

2022	FY2022 DT Annual Honours and Awards , Enabling Customer Success - Lazada Seller Commitment Score	Singapore
2020	Best in Audience Engagement , Asian Digital Media Awards (ADMA)	Singapore
2015	Winner , IBM Chairman Environmental Award	Singapore
2015	Finalist , INFORMS Innovative Applications in Analytics Award	Philadelphia, U.S.A
2014	Winner , IS Technical Accomplishment	Singapore
2015	Winner , IBM Service Excellence Award	Singapore
2012	Winner , Student Travel Grant from ACM Multimedia	Nara, Japan
2012	Winner , NUS Research Achievement Award	Singapore
2011	Winner , ACM SIGCHI Honorable Paper Mention Award	Vancouver, Canada
2010	Winner , London Imperial College Research Skills Development Award	Singapore
08 – 12	Winner , NUS Graduate Scholarship	Singapore
2008	Winner , Excellent Graduate Award by Fudan University	Singapore
05 - 07	Winner , Fudan University Undergraduate Scholarship	Shanghai, China

Publications

Collaborative Mobile-Learning Systems for Music Education and Training	<i>Doctoral Dissertation</i>
YINSHENG ZHOU	2013
Preservation Of Privacy Of Inputs	<i>U.S. Patent</i>
YINSHENG ZHOU, YU CHIN FABIAN, PRALHAD, CHUN HUI AND VENKATRAMAN	Oct 2020
Peer Voting on Blockchain	<i>U.S. Patent</i>
ANUJ CHOPRA, YINSHENG ZHOU, YUAN YUAN, WENBIN ZHANG	Nov 2017
Airborne Particulate Source Detection System	<i>U.S. Patent</i>
KYONGMIN YEO, YINSHENG ZHOU, XIAO LIU, AND JAYANT R. KALAGNANAM	Dec 2016
CESUS: A Cost-Effective Massively Parallel Processing Solution Under a Resource Strapped Situation	<i>Technical Report</i>
YINSHENG ZHOU, AND GRIGORIY KUZNETSOV	2017
Using the MOGLASS in group Music Therapy with individuals with Muscular Dystrophy: A pilot study	<i>Music and Medicine (MMD), SAGE</i>
WANG FENG NG, YINSHENG ZHOU, YE WANG, AND PATSY TAN	2012
MOGAT: Mobile Games with Auditory Training for Children with Cochlear Implants	<i>ACM Multimedia, Nara, Japan</i>
YINSHENG ZHOU, KHE CHAI SIM, PATSY TAN, AND YE WANG	Oct 29 - Nov 2, 2012
MOGAT: A Cloud-based Mobile Game System with Auditory Training for Children with Cochlear Implants	<i>ACM Multimedia, Nara, Japan</i>
YINSHENG ZHOU, TONI-JAN KEITH P. MONSERRAT, YE WANG	Oct 29 - Nov 2, 2012
A Tempo-Sensitive Music Search Engine With Multimodal Inputs	<i>MIRUM, Scottsdale, Arizona, USA</i>
YU YI, YINSHENG ZHOU, YE WANG	2011
MOGLASS: Evaluation of a Collaborative System of Mobile Devices for Classroom Music Education of Young Children	<i>ACM CHI. Vancouver, BC, Canada</i>
YINSHENG ZHOU, GRAHAM PERCIVAL, XINXI WANG, YE WANG, SHENG DONG ZHAO	May 7 - 12, 2011
MOGLASS: A Collaborative System of Mobile Devices for Classroom Music Education	<i>ACM Multimedia, Firenze, Italy</i>
YINSHENG ZHOU, GRAHAM PERCIVAL, XINXI WANG, YE WANG, AND SHENG DONG ZHAO	October 25 - 29, 2010
MOGFUN: Musical mObile Group for FUN	<i>ACM Multimedia, Beijing, China</i>
YINSHENG ZHOU, ZHONGHUA LI, DILLION TAN, GRAHAM PERCIVAL, AND YE WANG	October 19 - 24, 2009