

# CURRICULUM VITAE

## Kevin Hui

Senior Software Systems Engineer

Australian Permanent resident, Skilled-Independent (189)

Bachelor's Degree in Computer Software,Ocean University of China

Sydney, NSW 2071, Australia

Phone: 0493712019

Email: [huiyi2028@gmail.com](mailto:huiyi2028@gmail.com)

## PROFILE

---

With twenty years of R&D experience, I am a Senior Software Systems Engineer specializing in designing and developing complex software systems. I have versatile expertise across multiple technology domains and can proficiently perform roles such as product design, development, data processing, and DBA. I have a deep understanding of software product quality at a macro level and a wealth of experience in low-level protocols and technical principles.

My strengths/specialties include:

- Over a decade of experience in designing and developing complex software systems.
- Proficiency in Java, J2EE, Spring and Spring Family framework.
- Eight years as a proficient Database Administrator (DBA) with expertise in database management.
- Effectively analyze and resolve complex technical issues, including performance optimization, sequence overflow, and various database challenges.
- Innovated the Extreme Retrospective methodology to enhance my work and guiding colleagues in improving quality.
- Holder of cross-disciplinary patents in AI, Low code, 5G, VR, Big data, Databases, Data ETL, TCP, and Load balancing.

## TECHNICAL SKILLS SUMMARY

---

Main Languages	Java (jdk1.8), SQL(plsql\mysql\sybase)
Working Knowledge	Go, Python,Unix, JavaScript, React, C, AWS,Docker, Open Stack Cloud, JavaScript
Tool Kits	Git, Maven, CI/CD, Docker, Postman,WireShark, JMeter, Pinpion, JVisualVM, Arthas
Frameworks	Spring, Spring Boot, Spring MVC, Spring Security, MyBatis, Hibernate, , Node.js, JAIN SLEE(J2EE), Hadoop, MapXtreme, Antrl
Middleware	MQ, Redis,Tomcat,ATS, Nginx
Data Synchronization	Oracle Golden Gate (OGG), MV synchronization, Stream synchronization, Data Guard, Redis Master-Slave Replication, Redis Sentinel Cluster
System Optimization	TCP optimization, Load Balance, JVM, Database optimization(Index/AWR/query plan/Slow-log/Parameter adjusting )

## PROFESSIONAL EXPERIENCE

---

**CCN R&D Center, ZTE Corporation** <https://www.zte.com.cn/global/>

Senior Software Systems Engineer, Level 5 Senior Expert in Software Design (Highest within Department)

Jun 2019 – May 2023

### Key Responsibilities:

- Designed, developed, and maintained software components for complex systems, like BPMN engine and VAS (Value-Added Service) products
  - Employed Spring Boot for developing microservices to handle REST resource requests;
  - Leveraged React for custom module drag-and-drop functionality and assembly;

- 
- Utilized Java design patterns for code optimization and enhancement.
  - Developed a sophisticated token-based traffic control mechanism using Spring Boot, ensuring optimal resource allocation and preventing overuse of services.
  - Implemented AOP techniques to enhance the project by adding cross-cutting concerns such as logging, security, and performance monitoring.
  - Utilized Go multi-threading technology to develop an BPMN execution engine for scheduling published REST services;
  - Ensured development and maintenance of software products such as USSD and IVR system, leveraging J2EE/JSLEE and container technology, tuning system parameters and JVM for enhanced performance.
  - Delivered web technical training sessions to customers and new recruits, enhancing their skills.

#### **Achievements**

- Innovated low-code platform, iSaddle, which enables the encapsulation, orchestration, and seamless deployment for Telecom services. It featured a user-friendly frontend with drag-and-drop functionality based on Blockly and React, achieving impressive performance enhancements, with patent applications in progress.
- Significantly improved USSD product performance, increasing capacity from 100cps to 700cps. This involved optimizing various components such as JVM, J2EE, MySQL, and peripheral system interfaces.
- Leveraged over a decade of R&D expertise and extensive fault handling experience to develop a self-derived retrospective methodology, enhancing product security through one year of practical research as SSG.
- Exceptional fault analysis skills, familiarity with analytical method such as WireShark, JMeter, Prometheus, Pinpoint etc.

\*\*\*\*\*

#### **Cloud Computing and Global Cloud R&D Center, ZTE Corporation**

Senior Software Systems Engineer, Level 4 Senior Expert in Software Design

Jun 2012 – May 2019

#### **Key Responsibilities:**

- Designed, developed, and maintained software components for complex systems, such as ITOP (Intelligent Traffic Operation Platform), RCS (Rich Communication Services), using Java, Spring, JSP, SQL, Web;
- Researcher, invent and design for 5G network devices, like vLB, TCPO, using C, Docker, python;
- Responsible for system performance optimization and security measures.
- Focused on performance optimization and security enhancements, covering areas like databases, cloud resources, high-concurrency modules, and high availability.
- Pioneered big data projects by introducing ELK and Hadoop modules, particularly within the Flow Business Intelligence System.
- Conducted fault analysis using tools like Wireshark and authored automated testing scripts (Shell/Python/Java/ANTLR)

#### **Achievements:**

- High capability for predicting and assessing potential risks in system architecture, design, development, operation, and performance.
- Outstanding proficiency in fault analysis, with expertise in various analytical methods such as WireShark, JMeter, Prometheus, Pinpoint, and more.
- Proficient in message middleware, such as MQ and Redis, and skilled in web caching using Nginx and ATS.
- Successfully led the AI team to complete the project pre-research and demo production for voice recognition, fraud detection, and hummed melody recognition, gaining a deep understanding of data analysis principles and key algorithms.

\*\*\*\*\*

#### **Service Software Development Department, ZTE Corporation**

Senior Software Systems Engineer, DBA

Jul 2005 – May 2012

#### **Key Responsibilities:**

- Designed, developed, and maintained for CRBT(Colorful Ring Service System Platform) web and database;
- Collaborated with software engineers and stakeholders, attended technical meetings, and provided project progress reports and future assessments.
- Responsible for the database management guidance, data synchronization solutions, operational monitoring, and troubleshooting support for approximately 200 CRBT database (Sybase/oracle/mysql) sites in more than 40 countries worldwide.
- Responsible for data ETL (Extract, Transform, Load) and data integration, including data migration from various vendors.
- Collaborated with software engineers and stakeholders, attended technical meetings, and provided project progress reports and future assessments.

#### Achievements:

- Database Management: Successfully managed databases with over 30 million users across multiple telecommunication sites. Proficient in database deployment, solution design, performance optimization, and operational troubleshooting.
- Outstanding Safety Record: Maintained a 6-year track record of overseeing databases without any significant security incidents or complaints.
- Data Synchronization Expertise: Well-versed in data synchronization, including both synchronous and asynchronous methods. Substantial experience in designing and operating data replication systems.
- Broad Technical Expertise: Demonstrated proficiency in a range of database technologies, including Oracle, Oracle GoldenGate (OGG), Materialized Views (MV), Oracle Streams, Sybase, Sybase IQ, Oracle Data Guard, and MySQL.
- Skilled in Java development and Spring framework, with expertise in JSP.
- Deep Protocol Understanding: In-depth knowledge of protocols like TCP, congestion control algorithms, and load balancing technologies. Holder of patents related to TCP optimization and LoadBalancer.

\*\*\*\*\*

#### NMS Department, Langchao LG Corporation

Software developer, Development Manager

Jun 2004 – Jun 2005

#### Key Responsibilities:

- Developed and maintained for network management system(NMS) web and database, using Java, struts, JSP, Oracle, SQL;
- Developed code for NMS network management system using a J2EE and WebLogic architecture, specializing in enterprise-level portal development. Responsibilities included implementing alarm collection and display, as well as GIS map display technology.
- Served as the Development Manager for Jiangsu Mobile NMS systems, managed development requirements and team building.

#### Achievements:

- Successfully developed the Network Management Customer Service GIS Map Alarm System and deployed it for China Mobile Jiangsu Branch and Hunan Branch.
- Promoted to Development Manager, responsible for managing product requirements and leading team development.
- Mastery in Web technologies, including Java, Struts, JSP, and expertise in Auto Test.

#### Key Honors:



#### Innovation brings value

##### • Invented 2 new products in 5G

In the 5G core network, I invented, designed, and developed two network element devices, vLB and TCPO, which were successively deployed for commercial use in the European and South Asian telecom markets.

(Reference links: [CN112838989A](#) [EP3952233A4](#) )



#### Technical Innovation - As Head of Department Innovation

---

- **Three pieces of forward-looking critical patents**

In 2022, these 3 innovations spans various domains such as Low Code Platform, 5G communications, and XR/VR technologies. And they propelled our department to the top position in innovation assessments within CCN center(over 3,000 engineers).

An intelligent low code platform with orchestration and self-learning (CN202210511979.3)

A scene-based 5G new call VR/XR information enhancement system (CN202210722924.7)

An intelligent system meta-verse management based on dimensions (CN202210722911.X)

(Those above-mentioned patents have passed the initial review by the patent office.)

- **Invented more than twenty patents**

Across disciplinary in AI, Low code, 5G, VR, Big data, Databases, Data ETL, TCP, Load balancing, and most of these can be viewed on the website or Patent Office.

(Reference links: [PatentGuru](#) [GooglePatents](#) )

## Achieved **BSIMM L2+**, As Department Product **Security Head** and CCN Center's **SSG**

- **NO.1 in product security score**

Within one year, elevated the department CCN9 's software security infrastructure evaluation from bottom rank to the top position in CCN center, which consisting of approximately 15 departments.

- **BSIMM L2+**

Leading four projects in the department to successfully achieve the inaugural product security certification according to the BSIMM framework, reaching an impressive L2+.

## Outstanding performance

- **5S excellent employee of ZTE cloud computing division**

5S represents achieving a top 10% performance evaluation in a six-month assessment cycle for five consecutive times.

- **Multiple ZTE Stock Incentive Recipient**

Acknowledged as one of the top 5% of key contributors to receive ZTE Corporation's stock incentive.

(Reference links :In 2020 [HKexnews](#), and in 2009 [SohuStock](#) )

## Vitality

Be keen on various sports, especially be good at football, climbing,running, swimming, etc.