**Curriculum Vitae**

Kevin Hui

Senior Software Systems Engineer

Australian Permanent resident, Skilled-Independent (189)

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

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## 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

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| 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, Pinpiont, 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, Pinpiont etc.

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**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.

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**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.

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**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.

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## 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](https://www.patentguru.com/CN112838989A) [EP3952233A4](https://patents.google.com/patent/EP3952233A4/en?inventor=%E6%83%A0%E7%BE%BF&oq=%E6%83%A0%E7%BE%BF) )*

**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](https://www.patentguru.com/inventor/%E6%83%A0%E7%BE%BF) [GooglePatents](https://patents.google.com/?inventor=%E6%83%A0%E7%BE%BF&oq=%E6%83%A0%E7%BE%BF) )*

 **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](https://www1.hkexnews.hk/listedco/listconews/sehk/2022/1104/2022110401746.pdf) , and in 2009 [SohuStock](https://q.stock.sohu.com/cn,gg,000063,992656998.shtml) )*

 **Vitality**

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