# YIFENG ZHONG

Raleigh, NC,US, willing to relocate

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**Software Developer**

Established application developer possessing over 15 years of dedicated experience designing and implementing complete software applications through the full development life cycle, using modern methodologies such as **Agile/Scrum, DevOps** and **Test Driven Development**. Adept at multifaceted requirement and system assessment, creating targeted software solutions for Android, Linux, and Windows. Proven ability to implement Web and android application. Vast expertise in unit testing and performance optimization, ensuring deliverables meet highest quality standards.

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Application Level Programming • Asynchronous  programming • Test Driven Development •  DevOps •
Linux based Development •User Interface Design •  Performance Optimization • Testing & Troubleshooting

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| **Languages:** | Java,  Scala,Database, JavaScript(ECMA6), Node.js, Perl, JSP, Angular2, JSF, C++ |
| **Web:** | XML, HTML, JSP, AJAX, JQuery, JSON,CSS |
| **Web Services:** | Tomcat, Glassfish, Pivotal |
| **Frameworks:** | Spring, RESTful, Android SDK, Hibernate,Ember.js, Express, |
| **Packages:** | JDK,  Visual C++, Spark, Spring |
| **Databases:** | MySQL, Oracle, Mybatis, SQLite, MongoDB |
| **SDLC:** | Agile/Scrum, Domain Driver Design, Test Driven Development, Design Patterns |
| **Platforms:** | Android, Linux, Unix, Ubuntu |
| **Big Data:** | Hadoop, Spark |
| **Others:** | Jira, Git, SVN, DevTools |

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## PROFESSIONAL EXPERIENCE

*CAREER NOTE:* Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

**AT&T(Contractor), United State 11/2017-2/2018**
**Full Stack Software Engineer**
**Project:** Web-based Ticket Management System
**Technologies:** JavaScript, JQERY, Ember.js, HTML/JS/CSS, Perl, DevOps.
**Tasks Performed:**
- Talked to end user around the world directly, then reflected the requirement in code implementation.
- Used modern JavaScript Framework (ember.js/Angular) HTML/CSS to add new web Component into a ongoing system.
- Rewrote the web component and Ajax call based on JavaScript framework, make the page response 30% sooner.
- Fix defects in web applications from front-end to back-end, improve the user experience.

**Maharishi University, United State 2017**
**Project:** Real Estate System(Academic), Banking Account Management System(Academic)
**Technologies:** Java, Spring, JSF, Hibernate, Spark, Maven, Angular, Mongo DB, Node.js, Express, JavaScript
**Tasks Performed:**
- Used Scala in Spark to count the access to the different IP address in Apache log.
- Used Spring Framework and Hibernate to construct Online Bank Account Check Module.
- Used MEAN to design the Single Web Page Application.
- Used MongoDB and Node.js to construct Backend program.
- Used Java to applied different design pattern in a framework which provides Basic functions to the upper application.

**PE-BANK INC., Tokyo, Japan • 2015-2016**

**Senior Software Developer**
<u>**Project:**</u> web-based selling system for mobile virtual network corporation.
<u>**Technologies**</u>: Java, J2EE, Spring, Hibernate, Oracle, Maven, Groovy, DDD, TDD,Git, Jquery
<u>**Tasks Performed**</u>:
- Developed a shipment system in Spring and integrated with other functionalities into a completed system by RabbitMQ.
- Participated in a Scrum team, broke down requirements into tasks and estimated the workload of every task/sprint. Walked through the whole process of SCRUM.
- Wrote the Unit test by Junit, got 90% coverage of the program.

<u>**Achievements**</u>:
- Allowed logistical company to operate business online and update other systems.

**MTC INC., Tokyo, Japan • 2011-2015**

**Senior Software Developer**
<u>**Project:**</u>Video Voice Mail, Android Email System, TV SetBox System, Wearable Theater Entertainment System.
<u>**Technologies**</u>: Java, Spring, Hibernate, Node.js, Mongo DB, SQLite, MySQL Android SDK/Studio, Linux Kernel, Linux, Android, TDD,Git
<u>**Tasks Performed**</u>:
- Used Java(Android SDK) and C++ to fix bugs and unreasonable action in GUI applications.
- Used Node.js and Mongo DB develop a server-side application Deployed on AWS cloud server.
- Refactor the network constriction part in server side using State using Spring Framework .
- Refactored Queries for a database, optimized DB, made query time 20% shorter.
- Used Big Data Analytics to produce the graphical report and analyze the report and predict the potential defects of products.
- Developed a server-side REST Web application to transmit the message.
- Participated in a Scrum team, broke down requirements into tasks and estimated the workload of every task/sprint. Walked through the whole process of SCRUM.

<u>**Achievements**</u>:
- Made a server-side app, made development team member use my app to develop their communication part.
- Lower the power consumption to 10% by working on power management part of Linux kernel.
- By producing reports using Big Data analytics, help management department make the right decision on work.
- Eliminated communication barriers between Japanese and Chinese.
- Android Docomo Mail: https://www.nttdocomo.co.jp/service/docomo_mail/
- Android Docomo Video Voicemail: https://www.nttdocomo.co.jp/service/answer_phone/answer_phone_app

**TIANFU SOFTWARE PARK INC, Sichuan, China • 2009-2011**

**Senior Software Developer**
<u>**Project:**</u>TV Top Box system, Shell application on an embedded Linux kernel
<u>**Technologies**</u>: C/C++, Eclipse, Ubuntu, Linux, Linux kernel, uT-kernel
<u>**Tasks Performed**</u>:
- Ported a Linux kernel to a Tv Top Boxboard, and developed desktop application on TV Top Box.
- Gathered customer requirements in meeting,and translated it into the technical requirement.
- Wrote Design specification for development, and managed development schedules, allocated resources.
- Implemented complete applications, and modules for Embedded Linux-based systems.
- Developed a shell application on an Linux kernel.

<u>**Achievements**</u>:
- Implemented Linux kernel on a new board.
- Allowed user interaction with with TV set Top Box through desktop application.

- Led project teams smoothly, including translation of project requirements into technical specifications.

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- Streamlined development with the shell application to allow developers to check and manage processes.

**HUNSUN JAPAN INC., Tokyo, Japan • 2005-2008**
**Software Developer**
**Projects**:Automobile Insurance, Cellphone Simulation, Retail Management, Printer Maintenance systems.
**Technologies**: C/C++, Visual C++, Embedded Visual C++, Eclipse, Windows
**Tasks Performed**:
- Created and test GUI applications on multiple platforms, and eliminated bugs.
- Wrote client-side application and used TCP/IP socket to communicate with the server through network.
- Went to end user, installed the software system, did the final release test.

**Achievements:**
- Improved the user experience significantly and implemented business functionality.
- Retrieved data from server and transmitted commands.

**JVC BEIJING DEVELOPMENT CENTER, Beijing, China • 2002-2005**

**Junior Engineer**
**Projects** USB Port Driver, Digital Camcorder OSD, Video Data Encode/Decode Middleware.
**Technologies:** C, ICE, Visual C++, Linux, USB communications protocols
**Tasks Performed:**
- Wrote a firmware to transmit video&audio and control command.
- Wrote a middleware to encode/decode video data.
- Debugged applications with ICE .

**Achievements:**
- Created firmware for camcorder, and menu GUI for digital TV.

**Other Project(NAP INC, Tokyo, Japan • 2016)**

Analyzed requirements and wrote design documents for large Japanese banking corporation.
**Tasks Performed:**
- Translated project design specification from Japanese to English.

## EDUCATION
### Master of Science in Computer Science
*(In progress via distance education; expected completion October 2018)*
Maharishi University of Management – Fairfield, Iowa

***Key Courses:*** *Modern Programming in Java;Design Pattern; Modern Web Applications; Enterprise Architecture; Web Application Development; Algorithms; Big Data; Web Programming Techniques*

### Bachelor of Science in Computer Science (2001)
South West Jiaotong University – Sichuan, China
***Key Courses:*** *Microcomputer Technology; C/C++ programming; Database; Data Structure; Software Engineering Fluent in English, Japanese, and Chinese*