



Zhiwei Li 29-year-old Male

Location : Guangzhou, Guangdong

Expected Position : Full Stack Engineer / Backend Engineer

Expected Location : Guangzhou

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PROFILE

- I am an engineer, startup founder, blogger, and lifelong learner. I had tracks of excellence in my 29 years of life. I ranked in the top 300 in NOIP(National Olympiad in Informatics in Provinces) in Guangdong Provinces in my high school. After my first year at Beijing Forestry University(Top 100 of 3000 universities in China), I dropped out to work in a startup and then created my one. Over three years in the startup industry, I constructed a knowledge live broadcast platform that served 30,000 users and led a team to complete 50 small software projects for around two years, generating a revenue of 3 million CNY. In my last job, I worked as a contractor for one of the largest banking and financial services institutions in the world, HSBC Bank.
- Regarding my technical experience, I have accumulated approximately nine years of software engineering experience, working across different domains such as iOS, Android, frontend, and backend development. And, I dedicated around one year to exploring the field of machine learning, which I pursued during my leisure time and freelance periods. In addition, I have achieved proficiency in English, having obtained a score of 6 on the IELTS exam.
- Because of my benevolent and honest personality, I am an easy-going, reliable, and joyful guy who gets along with people well.
- Please check out my software portfolio, <https://lzwjava.github.io/portfolio>.

EDUCATIONAL BACKGROUND



Guangzhou Yuyan Middle School

Science | High School

2010-09 to 2013-06

- ▶ • Ranked as top 300 in 100k students at Guangzhou High School Entrance exam.
- Ranked as top 300 in 2011 Guangdong NOIP(National Olympiad in Informatics in Provinces).



Beijing Forestry University 211

Dropout | Digital Media Arts | Bachelor

2013-09 to 2014-07

- ▶ • Passed 13 courses, like Computer Introduction, Fundamentals of Programming, Programming Fundamentals Lab, College English, Advanced Mathematics, Principles and Techniques of Digital Imaging, Two-Dimensional Graphics Technology.
- Built a campus assistant Android application "Bjfu Assistant" that integrates the functions of checking grades, and alumni forums. It has been downloaded and used by thousands of users on campus. Built an Android App for learning English by watching movie clips, and won the third prize in a hackathon.
- Ranked in the top 1 in my schools ACM/ICPC monthly training competition among around 100 top students in the university, including higher grade one.



Guangdong University of Foreign Studies

Computer Application | College Diploma

2022-10 to 2025-10

- ▶ • Self-taught higher education. Passed 4 courses, Introduction to Operating Systems, Introduction to Data Structures, Advanced Language Programming (I), and English (I).

WORK EXPERIENCE



Not Applicable

Freelancer

2023-07 to Present

- Carefully analyzed and reimplemented some core parts around 30 example projects about machine learning, from PyTorch, TensorFlow tutorials, Coursera online courses, or other open-source projects. Got one course completion certificate from Coursera about Machine Learning Specialization.
- Prepare for exams related to obtaining an associate degree, with a focus on subjects such as advanced mathematics, computer organization, linear algebra, etc.
- Listened to some Japanese songs and watched a lot of Japanese TikTok videos to learn the language.

Shenzhen Farben Information Technology Co.

Farben

Full Stack Engineer

2022-11 to 2023-07

- Farben is a leading software technology service provider in China. HSBC Bank is one of the largest banking and financial services institutions in the world. PayMe is an HSBC mobile payment service catering to Hong Kong residents.
- Contracting through Farben, I joined HSBC Bank as a contractor to work on the PayMe project. I participated in the backend development for the Auto Top Up feature and assisted with the cloud migration.
- We utilized a strong tech stack including Java, Spring, and Kafka, along with Azure, Azure DevOps, and AWS for cloud services and continuous integration.



Beyondsoft Consulting Inc

Full Stack Engineer

2021-12 to 2022-11

- Beyondsoft Consulting is a leading business IT and consulting company. DBS Bank is the largest bank in Southeast Asia by assets and among the largest banks in Asia.
- Contracting with Beyondsoft, I was assigned to work for DBS Bank and contributed to DBS Client Connect by developing the equity trading micro-service, and to DBS DigiBank CN by participating backend development of several micro-services, including those for mutual funds.
- We leveraged cloud technologies and modern frameworks, employing automation best practices with tools such as Java, Spring Cloud, Jira, Confluence, Jenkins, Pivotal Cloud Foundry, and Kibana, and utilizing BDD and TDD methodologies.



Not Applicable

Freelancer

2020-01 to 2021-11

- Completed various software projects, including the development of a website for LED Sign (lvchensign.com) and contributions to the development of the online technical interview platform, ShowMeBug. Leveraged technologies such as Ruby, Ruby on Rails, Python, ElasticSearch, Docker, and Netty.
- Authored and published technical blogs to share knowledge online, improved English proficiency through engaging with Netflix and literature, and enhanced problem-solving skills by tackling algorithms and participating in Codeforces competitions.
- Gained hands-on experience with big data and cloud-native technologies by exploring introductory tutorials and running examples for Spark, Hadoop, Kubernetes, and Docker.



Beijing Square Root Inc

CEO & Full Stack Engineer

2016-07 to 2019-12

- Beijing Square Root Inc. ran two businesses in 3.5 years. From July 2016 to September 2017, it rolled out and operated Fun Live, a knowledge live broadcast platform. From January 2018 to December 2019, it transformed into a software consulting business.
- With Fun Live, users can participate in various knowledge lectures such as programming or design here. Users can pay some fees to attend the live or reward the lecturer. The lecturer uses the OBS tool to push live stream to the server. Users can participate in the lecture in real time or see the playback later. It integrates seamlessly with the WeChat platform like the notifications functionality. By hosting around 80 lectures, it gained around 30000 users and millions of page views. I was responsible for most software development and marketing.

- During the software consulting business period, we did 50 small software projects for customers, including websites, games, and apps. The revenue was around 3 million RMB and the profit was around 700 thousand RMB. I was responsible for project negotiation, team management, and some software development.
- We leveraged cloud technologies and modern frameworks like PHP, Java, Python, Spring, Vue, HTML, Laravel, MySQL, Redis, WebSocket, Alibaba Cloud, Spring Boot, MiniProgram, WeChat SDK, and DevOps tools, etc.



Beijing Dami Entertainment Co.

Cofounder & Full Stack Engineer

2015-11 to 2016-06

- Beijing Dami Entertainment Co. was a company founded by 6 Internet lovers, including me. We launched and operated the platform CodeReview. CodeReview is a professional platform for code review, communication, and sharing. Engineers can submit their code for expert review to improve the quality of their code. It gained around 3000 users.
- Responsible for the code development of the backend and half of the frontend. We utilized a strong tech stack including PHP, Vue, Code Igniter, Alibaba Cloud, and Ping++.



Pinyue Chuangzhi (Beijing) Technology Consulting Co.

Software Engineer

2014-07 to 2015-11

- Pinyue Chuangzhi has a leading cloud computing provider in China, LeanCloud. The company serves hundreds of thousands of developer users and has received IDG investment.
- Participated in the development of LeanCloud iOS SDK and Android SDK. Responsible for some Angular frontend projects.
- Responsible for the development of LeanChat iOS client and Android client. This was a chat application set up to demonstrate the communication SDK, with functions such as single chat, group chat, nearby people, etc.

PROJECTS

Corporate Projects Full Stack Engineer 2014-07 to Present

- PayMe from HSBC. Participated in the backend development of auto top-up feature and cloud migration. Used tech stacks like Java, Spring Cloud, Azure, and AWS. From 2022.11 to 2023.07.
- DBS Digibank CN. Participated in the backend development of mutual funds. Used tech stacks like Java, Spring Cloud, and Pivotal Cloud Foundry. From 2022.7 to 2022.11.
- DBS Client Connect. Participated in the backend development of equities trading. Used tech stacks like Java, Spring Cloud, and Pivotal Cloud Foundry. From 2021.12 to 2022.6.
- ShowMeBug, an online interview platform. Responsible for the integration between the platform and the Enterprise WeChat, like login, and easy interview entrance. Used tech stacks like Ruby on Rails, PostgreSQL, and WeChat SDK. From 2021.7 to 2021.9.
- The 50 miscellaneous projects of Square Root Inc., including websites, games, apps, WeChat mini-programs. My software consultant company. Responsible for team management, contract negotiation, and some software development. From 2018.1 to 2019.12.
- The WeChat Mini program for Super Brain TV Program in China. Responsible for the backend and front-end development. Used tech stacks like Java, Spring, Javascript, HTML, and AliCloud. From 2018.2 to 2018.3.
- A live-streaming trivia app. Responsible for the half backend development and admin panel frontend development of the first version. Used tech stacks like Java, Spring, WebSocket, and Netty. From 2017.9 to 2018.1.
- Fun Live, a simple Coursera platform in China. My startup project. Responsible for all code development. Used tech stacks like PHP, Javascript, HTML, AliCloud, and RTMP Streaming. From 2016.6 to 2017.9.
- LeanCloud Mobile SDK and LeanChat. Responsible for some iOS and Android SDK development, and all development of their demo app LeanChat. From 2014.07 to 2015.10.

Open Source & Blog & Codeforces Owner

2013-09 to Present

- Below are my open-source projects. Please check out here, <https://github.com/lzwjava>.
- neural-networks-and-zhiwei-learning, machine learning practice projects, 530 commits, Python

- algorithm-solutions, the solutions to algorithm problems, 2466 commits, Java
- lzwjava.github.io, my blog, 1537 commits, English & Chinese
- live-server, the backend of a knowledge live broadcast platform, 660 commits, PHP
- live-mobile-web, the mobile frontend of a knowledge live broadcast platform, Vue & JavaScript, 528 commits
- live-web, the desktop frontend of a knowledge live broadcast platform, Vue, 140 commits
- code-review-server, the backend of a professional platform for code review, PHP, 275 commits
- code-review-web, the frontend of a professional platform for code review, Vue & JavaScript, 302 commits
- leanchat-ios, an iOS chat application, 556 commits, Objective-C
- leanchat-android, an Android chat application, 412 commits, Java
- curiosity-courses, a programming course, 215 commits, Chinese
- LZAlbum, an iOS simple application like WeChat moments, 47 commits, Objective-C
- feynman-lectures-mobi, a tool to convert latex to SVG to create mobi ebook, 47 commits, Python
- Creak, a simple HTML Parser, 49 commits, Swift

Others

Skills

I have gained a lot of skills since I started programming in 2008. In terms of usage time, the high-level description is as follows. It is different from working experience. I use it to show relative familiarity with my skills.

- 5 or more years of using experience: Chinese, English, Writing, Java, Algorithm, Test-driven Development, Cloud Computing, DevOps, Backend Development
- 3 to 4 years of using experience: Cantonese, iOS Development, Android Development
- 1 to 2 years of using experience: Product Management, Machine Learning, Frontend Development
- less than 1 year of using experience: Japanese

Tools

Below are detailed tools that help me to accumulate the above skills, plus other interesting tools. I am still using some of them and can learn for a few days to use the rest of them again.

- Natural Language: English, Chinese, Cantonese, Hakka, Japanese
- Operating System: Linux, Windows, MacOS, Android, iOS, OpenWRT, Symbian, Apple tvOS, Fire OS
- Language: PHP, Java, Objective-C, Swift, Ruby, HTML, C, C++, JavaScript, Lisp, Clojure, TypeScript, Node.js, Go, Python, Pascal
- Domain-specific language: JSON, CSS, SQL, NoSQL, Kusto Query Language
- Framework & Database: jQuery, Hexo, Jekyll, React, MongoDB, PostgreSQL, Microsoft SQL Server, Stylus, Sass, MySQL, Redis, Kafka, RTMP streaming, HTTP/IP, Vue, Spring, Hibernate, Netty, Pandas, Numpy
- Math: Calculus, Linear Algebra, Latex
- Development Tools: NPM, Webpack, Git, Travis CI, HomeBrew, Gradle, Maven, Xcode, VSCode, Sketch, Powershell, IntelliJ IDEA, Cocopods, Android Studio, Jenkins, SonarQube, WordPress, Nginx, ChatGPT, Elasticsearch, Docker
- Machine Learning: TensorFlow, PyTorch, Theano, Anaconda, Jupyter Notebook, CUDA
- Cloud Tools: GitHub, GitLab, Jira, Confluence, Cloudflare, Digital Ocean, Vultr, AWS, Azure, Alibaba Cloud, Pivotal Cloud Foundry
- Test: Postman, Selenium, Karate, JUnit, Mockito, Apache JMeter, Apache ab
- Others: FFmpeg, Spark, Proxy Tools

Certificates

- Beijing Forestry University Dropout Certificate
- China Higher Education Official Report (Bachelor Education, Dropout Status)
- IELTS Academics, Score 6
- Machine Learning Specialization Course Completion Certificate, provided by DeepLearning.AI and Standford University
- Developing on AWS, provided by AWS Training

Links

- GitHub:<https://github.com/lzwjava>
- Blog:<https://lzwjava.github.io>
- Codeforces:<https://codeforces.com/profile/lzwjava>
- UVa Online Judge:<https://uhunt.onlinejudge.org/id/113519>
- LinkedIn:<https://www.linkedin.com/in/lzwjava>
- Kaggle: <https://www.kaggle.com/lzwjava>
- Portfolio: <https://lzwjava.github.io/portfolio>