# Zhiwei Li  29-year-old    Male

Location : Guangzhou, Guangdong
Expected Position ： Full Stack Engineer / Backend Engineer
Expected Location ： Guangzhou

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## PROFILE

- 29-year-old male, Chinese citizen, resides in Guangzhou.
- Achieved top 300 in NOIP 2011, solved around 1000 algorithm problems online.
- Studied for one year at Beijing Forestry University before dropping out. Pursuing an associate degree through self-taught education, with five courses completed.
- Worked primarily at LeanCloud, Beijing Square Root, Beyondsoft (outsourced to DBS Bank), and Farben Information(outsourced to HSBC Bank).
- Accumulated 9.5 years of professional experience, including 7 years in corporate roles and 2.5 years as a freelancer.
- Specializes in 2 years of mobile (Android, iOS) engineering and 6 years of full-stack engineering (5 years backend, 1 year frontend), and 1 year in machine learning/big data.
- Familiar with Java, Spring, MySQL, Vue, HTML, Alibaba Cloud, AWS, Azure, and more.
- Native in Chinese, proficient in English (IELTS 6).
- Developed 10 open-source GitHub projects as a main developer, each with over 500 commits available at https://github.com/lzwjava.
- Detailed software portfolio available at https://lzwjava.github.io/pages/portfolio.

## EDUCATIONAL BACKGROUND

**Guangzhou Yuyan Middle School**                                    2010-09 to 2013-06
Science | High School

- Ranked in the top 300 out of 100k students in the Guangzhou High School Entrance exam.
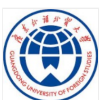- Ranked in the top 300 in the 2011 Guangdong NOIP(National Olympiad in Informatics in Provinces).

**Beijing Forestry University**  *211*                                2013-09 to 2014-07
Dropout | Digital Media Arts | Bachelor

- 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. And I 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**                           2022-10 to 2025-10
Computer Application | College Diploma

- National Higher Education Self-study Examination. Passed 5 courses as of now, Introduction to Operating Systems, Introduction to Data Structures, Advanced Language Programming (I), English (I), Advanced Mathematics.

## WORK EXPERIENCE

### Not Applicable
Freelancer — 2023-07 to Present

- 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. And got two course completion certificates from Coursera about Machine Learning Specialization and Deep Learning Specialization.
- Prepared for exams related to obtaining an associate degree, with a focus on subjects such as advanced mathematics, computer organization, linear algebra, etc. Listened to a lot of Japanese songs and watched a lot of Japanese TikTok videos to learn the language.
- Participated as a Full Stack Developer in an AI-powered story bot project using Claudes API for personalized stories. The bot supports prompt setting and includes a management page for configuration. Developed with Python, Flask, React, and Nginx, and deployed on AWS. Used Prometheus for monitoring, ELK stack for log management, and ChatGPT-4 for programming assistance.

### Shenzhen Farben Information Technology Co.
Backend 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 was assigned to work for HSBC Bank and contributed to the PayMe project. I participated in the backend development for the Auto Top Up feature, which automatically tops up funds from the users credit or debit card when their balance falls below a certain amount. We monitored post-payment events from Azure EventHub and checked for top-ups whenever a user set up their auto top-up configuration. We used dedicated object-oriented programming to handle cases elegantly and applied aspect-oriented programming to audit logs for changes in the auto top-up table. Additionally, I assisted with the AWS migration by troubleshooting IAM and RDS configurations.
- Following the SDLC, we embrace Agile methods with daily stand-ups, sprint planning, sprint reviews, and sprint retrospectives. My tasks include coding, testing, ticket completion, merging, and supporting releases. I also document pain points and blockers for future reference.
- 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
Backend 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 and DBS DigiBank CN.
- In the DBS Client Connect project, I contributed to the development of the equity trading micro-service. My responsibilities included creating functionalities for equities display, customer display, pre-trade checks, and placing actual equity trade orders. We integrated Avaloq APIs to enhance the underlying infrastructure and improved the user experience by implementing an edit distance algorithm to refine stock code searches.
- In the DBS DigiBank CN project, I participated in backend development for various micro-services, including mutual funds management tasks such as subscribing to or redeeming mutual funds. I assisted with performance tests by analyzing logs from Pivotal Cloud Foundry to generate reports on the QPS of the micro-services. Additionally, I developed a tool to automate test generation using the Karate framework.
- Following agile methodologies, I handled diverse tasks such as API development, test writing, ticket completion, code merging, and supporting production releases. Additionally, I documented API descriptions and created onboarding guides for new team members.
- 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 Enterprise WeChat integration of the online technical interview platform, ShowMeBug, and developed a web scraper to collect trade data for a non-woven fabric company. Leveraged technologies such as Ruby, Ruby on Rails, Python, React, ElasticSearch, Docker, Selenium 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 around 500 algorithm problems and participating in Codeforces competitions.
- Gained a little of 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
**Founder & 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.
- The software development projects I contributed to encompassed a broad range. This included leading a comprehensive backend refactoring effort for MianbaoLive, a one-stop content monetization and social economy platform. Furthermore, I spearheaded full-stack engineering for Jiangsu TVs Super Brain programs WeChat Mini Program, and also for a mobile trivia app resembling HQ Trivia.
- 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, 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.
- I was 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. It offers a complete set of cloud services including object storage, file storage, web hosting, container, instant messaging, push notification, SMS, and game backend. The company serves hundreds of thousands of developer users.
- I participated in the development of LeanCloud Objective-C SDK and Java SDK. I was responsible for the development of LeanChat iOS client and Android client, a chat application set up to demonstrate the instant messaging SDK. Additionally, I was responsible for some frontend projects.
- We employed a robust tech stack, leveraging modern tools such as iOS SDK, Android SDK, Cocoapods, Xcode, Android Studio, and the Angular framework.

## PROJECTS

**Corporate Projects**     Full Stack Engineer

- AI-powered Story Bot (2024.5 - 2024.7) Participated in the full stack development. Used tech stacks like Python, Flask, React, AWS, and Claude.
- PayMe from HSBC (2022.11 - 2023.07) Participated in the backend development of the auto top-up feature and cloud migration. Used tech stacks like Java, Spring Cloud, Azure, and AWS.
- DBS Digibank CN (2022.7 - 2022.11) Participated in the backend development of mutual funds. Used tech stacks like Java, Spring Cloud, and Pivotal Cloud Foundry.
- DBS Client Connect (2021.12 - 2022.6) Participated in the backend development of equity trading. Used tech stacks like Java, Spring Cloud, and Pivotal Cloud Foundry.
- ShowMeBug (2021.7 - 2021.9) Responsible for the integration between the platform and Enterprise WeChat, including login and easy interview entrance. Used tech stacks like Ruby on Rails, PostgreSQL, and WeChat SDK.
- Square Root Inc Projects (2018.1 - 2019.12) Completed 50 miscellaneous projects including websites, games, apps, and WeChat mini programs. Responsible for team management, contract negotiation, project management, client communications, and some software development.
- Super Brain TV Program WeChat Mini Program (2018.2 - 2018.3) Responsible for the backend and frontend development. Used tech stacks like Java, Spring, JavaScript, HTML, and AliCloud.
- Chongding Conference (2017.9 - 2018.1) Responsible for some backend development and frontend development of the admin panel for a live-streaming trivia app. Used tech stacks like Java, Spring, WebSocket, and Netty.
- Mianbao Live (2017.9 - 2018.1) Responsible for refactoring the backend of a one-stop content monetization platform. Used tech stacks like PHP, TypeScript, Laravel, and Go.
- Fun Live (2016.6 - 2017.9) Responsible for most code development of a knowledge live broadcast platform. Used tech stacks like PHP, JavaScript, HTML, AliCloud, and RTMP Streaming.
- LeanCloud SDK and LeanChat (2014.07 - 2015.10) Responsible for some Objective-C and Java SDK development, and all development of their demo app LeanChat.

**Open Source & Blog & Codeforces**     Owner

- Please explore my open-source projects, both corporate initiatives Ive founded and personal side projects, on GitHub: https://github.com/lzwjava.
- algorithm-solutions, the solutions to algorithm problems, 2466 commits, Java
- lzwjava.github.io, my blog, 500 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, 528 commits, Vue & JavaScript
- live-web, the desktop frontend of a knowledge live broadcast platform, 140 commits, Vue
- live-wxapp, the WeChat Miniprogram of a knowledge live broadcast platform, 63 commits, JavaScript
- code-review-server, the backend of a professional platform for code review, 275 commits, PHP
- code-review-web, the frontend of a professional platform for code review, 302 commits, Vue & JavaScript
- weimg-server, the backend of an image community, 35 commits, PHP
- weimg-ios, an iOS application of an image community, 77 commits, Objective-C
- 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
- TabsKiller, a Chrome plugin that helps to close tabs in the brower, 19 commits, JavaScript
- Reveal-In-GitHub, an Xcode plugin, 57 commits, Objective-C
- LvchenSign, a website of an advertising signage company, 40 commits, JavaScript
- feynman-lectures-mobi, a tool to convert latex to SVG to create mobi ebook, 47 commits, Python
- flower-recognition, a flower recognition Android application, 37 commits, Java
- 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
- 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, Kibana 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, Discrete mathematics, Latex
- Development Tools: NPM, Webpack, Git, HomeBrew, Gradle, Maven, Xcode, VSCode, Sketch, Powershell, IntelliJ IDEA, Cocopods, Android Studio, WordPress, ChatGPT
- DevOps Tools: Travis CI, GitHub Actions, Jenkins, SonarQube, Prometheus, Elasticsearch, Logstash, Kibana, Nginx, Docker, Kubernetes, PM2
- Machine Learning: TensorFlow, PyTorch, Theano, Anaconda, Jupyter Notebook, CUDA
- Cloud Tools: GitHub, GitLab, Jira, Confluence, Digital Ocean, Vultr, AWS, Azure, Alibaba Cloud, Pivotal Cloud Foundry, Cloudflare, GoDaddy
- 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
- Deep Learning Specialization Course Completion Certificate, provided by DeepLearning.AI
- 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/pages/portfolio