Zhiwei Li 28-year-old Male

Location : Guangzhou, Guangdong
Expected Position ：Machine Learning Engineer / Data Enginner / Full Stack Engineer
Expected Location ：Guangzhou / Shenzhen

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PROFILE

- I am a genius. Because I believe everyone is a genius. To be specific, I am an engineer, startup founder, blogger, and lifelong learner.
- I had tracks of excellence in my 28 years of life. I ranked in the top 300 among the 100k students in Guangzhou High School Entrance Exam. And 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 in China), I dropped out to work in a startup and then create my one. Over three years in the startup industry, I constructed an engineering live broadcast platform that served 30,000 users and led a team to complete 50 small software projects per year, generating an annual revenue of 3 million CNY. And 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 technical experience, I have 6 years of backend engineering experience(4 years Java, 2 years PHP). I also did some Android, iOS, and frontend projects which served people. My English is proficient and I scored 6 on the IELTS exam. And I also solved more than 1000 algorithm problems on LeetCode alike website. I also had DevOps experience while doing my startup. In recent one year, I actively learn Artificial Intelligence and Japanese in my leisure time to raise my boundaries of intelligence.
- Because of my benevolent and honest personality, I am an easy-going, reliable, and joyful guy who gets along with people well.

EDUCATIONAL BACKGROUND

Beijing Forestry University *211*
Computer Science | Bachelor   2013-09 to 2014-07

- 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 school's ACM/ICPC(International Collegiate Programming Contest) monthly training competition among around 100 top students in the university, including higher grade one.

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).

WORK EXPERIENCE

Farben & HSBC Bank
Full Stack Engineer   2022-11 to 2023-07

- HSBC Bank is one of the largest banking and financial services institutions in the world. PayMe, an HSBC mobile payment service catering to Hong Kong residents with local phone numbers and banking services, boasted around 2.9 million active users as of November 2022.

- I joined HSBC Bank as a contractor via Farben, contributing to the PayMe project. I did the microservice development for features like Auto Top Up.
- 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 & DBS Bank
Full Stack Engineer   2021-12 to 2022-11

- DBS Bank is a Singaporean multinational banking and financial services corporation.
- Contracting with Beyondsoft, I joined DBS Bank and contributed to DBS Client Connect by developing the equity trading micro-service, and to DBS DigiBank CN by developing 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.

Freelancer Inc
Freelancer & Engineer   2020-01 to 2021-11

- Did some software projects as a freelancer. Projects consist of a website about a company doing the LED Sign, some modules of an online technical interview platform, etc. Used technologies like Ruby, Ruby On Rails, ElasticSearch, Docker, Netty, etc.
- Wrote technical blogs and shared them online. Learned English by watching Netflix and reading books. Solved some algorithm problems and participated in online algorithm competitions in Codeforces.

Beijing Square Root Inc
CEO & Engineer   2016-07 to 2019-12

- From January 2018 to December 2019, I led a team of around 20 full-time or part-time employees to complete nearly 50 small software projects for customers. The types of projects include small programs, apps, websites, and games. The revenue exceeded 3 million RMB and the profit exceeded 700 thousand RMB. I am responsible for project negotiation, project management, and some software development in the team.
- From July 2016 to September 2017, Fun Live, a live broadcast platform for software engineering lectures, was launched. In one year, nearly 30,000 users were obtained. Started my own business for the first time, and the marketing, and software development were mainly done by myself.
- During these years, I used technologies like PHP, Java, Spring, Vue, HTML, Laravel, MySQL, Redis, WebSocket, Aliyun, Spring Boot, MiniProgram, WeChat SDK, and DevOps tools, etc.

LeanCloud
Software Engineer   2014-07 to 2015-11

- LeanCloud is a leading domestic cloud computing provider. 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 is a chat application set up to demonstrate the communication SDK, with functions such as single chat, group chat, nearby people, etc.

PROJECTS

Machine Learning   Owner   2021-03 to Present
- Spent around one year actively exploring machine learning in my leisure time. Listened to a lot of lectures shared by AI industry leaders on topics like Reinforcement Learning, Supervised Learning, Policy Gradient, Neural Networks, Softmax, Feedforward, Backpropagation, etc.
- Wrote some related blogs on my website, such as Zen and the Art of Machine Learning, https://lzwjava.github.io/zen-neura, and I Finally Understand How Neural Network Works,

https://lzwjava.github.io/neural-network.
- Conducted experiments with famous open-source projects, like Faceswap. Did some LLM training and Neural Network training on my laptop. Read the transformer paper and walked through the code. Researching the LLaMA project from Facebook.
- Built a Deep Learning computer with Nvidia GPU, https://lzwjava.github.io/computer

Company Projects   Full Stack Engineer   2014-07 to Present

- PayMe, Java, 2022.11 - Present
- DBS Digibank CN & Client Connect, Java, 2021.12 - 2022.11
- Fun Live & Square Root miscellaneous projects, PHP & Java & Vue, 2016.07 - 2019.12
- LeanChat, iOS & Android, 2014.07 - 2015.10
- The detail can be found above.

Open Source & Blog & Codeforces   Owner   2013-09 to Present

- Some reproduced code of the project from the book Neural Networks and Deep Learning, a simple neural network to recognize hand-written digits
- An example microservice project with unit tests, about users, users' roles, and their relationship, https://github.com/lzwjava/user-service
- An iOS chat application that shows the functionality of LeanCloud Chat SDK, https://github.com/lzwjava/leanchat-ios
- An Android chat application that shows the functionality of LeanCloud Chat SDK, https://github.com/lzwjava/leanchat-android
- A course to teach basic programming and provide some beginner guide with several programming languages like Rust, Python, Java, and C, and discuss the topics like cloud computing and machine learning, https://github.com/lzwjava/curiosity-courses
- A Simple and Elegant HTML Parser written in Swift, https://github.com/lzwjava/Creak
- An Xcode plugin lets you jump to any GitHub repo's history, blame, and PRs pages with one shortcut. https://github.com/lzwjava/Reveal-In-GitHub
- Wrote Chinese and English articles (20 English, and 50 Chinese) on my blog site. https://lzwjava.github.io
- Solved 399 algorithm problems on Codeforces, https://codeforces.com/profile/lzwjava
- Solved 568 problems on Uva Online Judge, https://uhunt.onlinejudge.org/id/113519
- Around 50 Short Videos about early childhood education, language study, aerial photography, learning skills, and ChatGPT. Please check the Platform Douyin, https://v.douyin.com/iKAw9Y or Youtube https://www.youtube.com/channel/UC-jqwnFwWOS4ydgTsQR-9ZQ

English Learning   Owner   2013-09 to Present

- Spent leisure time of 3 years actively learning English using TikTok, Youtube, Netflix, Kindle, etc.
- Worked in English for 2 years in two large international banks.
- Got a score of 6.0(Reading Listening Writing 6.0, Speaking 5.5) on the IELTS(International English Language Testing System).

OTHERS

Skills

I have gained a lot of skills since I started programming in 2008. Let's look at my skills from a high level.
- 5 or more years of experience: Chinese, English, Writing, Java, Algorithm, Test-driven Development, Cloud Computing, DevOps, Backend Development
- 3 to 4 years of experience: Cantonese, iOS Development, Android Development
- 1 to 2 years of experience: Product Management, Machine Learning, Frontend Development
- less than 1 year of experience: Big Data, Japanese

Tools

Besides skills, let's look at the tools I have used. They 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, JSON, CSS, Node.js, Go, SQL, NoSQL, Python, Pascal
- Framework & Database: jQuery, Hexo, Jekyll, React, MongoDB, PostgreSQL, Microsoft SQL Server, Stylus, Sass, MySQL, Redis, Kafka, RTMP streaming, HTTP/IP, Vue, Spring, Hibernate, Netty
- 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
- 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

Articles

- To the 10 Yo's Me: How to Become an Information Genius, https://lzwjava.github.io/10yo
- The Next Generation Should Experience All of These Wonderful Things and Places, https://lzwjava.github.io/things
- I Finally Understand How Neural Network Works, https://lzwjava.github.io/neural-network
- Zen and the Art of Machine Learning, https://lzwjava.github.io/zen-neural
- The 10x AGI Information World, https://lzwjava.github.io/agi
- Think Totally Different, https://lzwjava.github.io/totally-different
- Genius Zhiwei decides to move his full focus to machine learning, https://lzwjava.github.io/ml-job
- How I Wear the Eyeglasses With 150 Degrees Less Than the Actual to Reduce Myopia, https://lzwjava.github.io/eyes

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
- Youtube, https://www.youtube.com/channel/UC-jqwnFwWOS4ydgTsQR-9ZQ