

# Lexi Shi

SOFTWARE ENGINEER

## Summary

With **7+ years** of experience, I specialize in versatile back-end development, seamlessly adapting to front-end tasks. A skilled team player with effective time management, I am passionate about crafting innovative solutions for challenges. Proactively embracing new technologies, I continually enhance problem-solving capabilities.

## Education

Master's Degree (**First Class Honours**) / Computer And Information Sciences

**Auckland University of Technology**

JULY 2022 - DECEMBER 2023

## Individual Projects

**Portfolio** [Visit Now](#)

Crafted with **Next.js**, **Tailwind CSS**, and **TypeScript**, my personal portfolio not only reflects my coding journey but is also hosted on **Vercel** for seamless accessibility. It's a sleek digital space showcasing my technical prowess in a clean and organized manner. More than just a webpage, it's a reflection of my coding journey and skills. Take a stroll through, and let's keep it techy and stylish!

**LLM&Vector Database Integration** [Github](#)

I independently conducted a research project in **Python**, focusing on enhancing Large Language Models (LLMs) through the integration of **vector databases**. This involved experimenting with various data chunk sizes and implementing novel pathology textbook segmentation, leveraging OpenAI's **GPT-3.5-turbo-16k model** and **Elasticsearch**. The project showcased the effectiveness of OpenAI's embedding techniques for generating precise vectors, optimizing response accuracy and relevance. The streamlined process included the integration of the **LangChain** framework, demonstrating my ability to strategically combine technologies for real-world language model optimization.

**Personal Blog** [Github](#)

As the backend whiz for our Cloud Computing project, I brewed up the backend magic for a dynamic blog application. With **SpringBoot** and **MyBatis** as my toolkit, I crafted a robust backend that harmonizes seamlessly with the frontend magic of **React** and **Redux**. This project is more than just blogs; it's a friendly space for sharing and discovering content. From managing data to tweaking server-side mojo, I ensured our platform is as cool as it gets. And yeah, we took it to the cloud with **AWS** for that extra boost and featuring **MariaDB** for the database groove in performance and scalability.

## Details

Auckland

New Zealand

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## Links

[LinkedIn](#)

[Github](#)

[Portfolio](#)

## Skills

Java

Python

C# / .NET

JavaScript / TypeScript

MySQL / Oracle / MariaDB /  
Elasticsearch

Redis / MongoDB

Git / Jira / Jenkins /  
Confluence

HTML / CSS

React / Next.js / Tailwind CSS

AWS EC2 / Docker

# Work Experience

## Software Engineer,

### TD SYNnex Information Technologies Ltd.

(U.S.-based company ranked No. 215 on the 2023 FORTUNE Global 500 List)

SEPTEMBER 2021 – AUGUST 2022

#### TD SYNnex RPA System / TD SYNnex Robot Desktop Client

In this project, I focus on developing data processing functionalities (server-side, Java) and automating web page interactions (client-side, Python) within Robotic Process Automation (RPA). My role centers on automating repetitive tasks like form entry and payment notification preparation. On the server side, I develop features for parsing PDF, Excel, and email content and sending email notifications. Simultaneously, on the client side, I automate data filling into relevant systems. My impact is quantifiable - I've reduced processing time by **90%** and increased task automation by **70%**. Additionally, I actively contribute to functional refactoring and code reviews, enhancing code quality and project maintainability. My work bolsters overall project robustness and scalability.

**Skills:** SpringBoot, .NET, Python, React, MySQL, Redis, JavaScript, Git, Jenkins, Jira, Confluence

## Software Engineer,

### Nanjing Asiainfo Software Ltd.

JULY 2019 – MAY 2021

#### Telecom Cloud Network Orchestration System / Telecom Opening Service System / Telecom Order Dispatch System

In response to the latest OSS domain specifications, I spearheaded the upgrade of the PG module, achieving a **20%** reduction in project delivery times through efficient time management and clear requirement documentation. In the Sichuan Province telecom system upgrade, my initiative in system maintenance led to a **30%** decrease in critical issues, enhancing overall system stability. Collaborating with departments, I played a key role in successful project releases, contributing to a **25%** increase in user satisfaction. These accomplishments underline my commitment to driving efficiency, optimizing performance, and ensuring the success of complex projects.

**Skills:** NodeJS, Python, JavaScript, SpringBoot, Bootstrap, Spring, WebSphere, Docker, MyBatis, MySQL, RocketMQ, Redis, Spring, Oracle

## Software Engineer,

### Shenzhen Tianlanse Software Service Ltd.

AUGUST 2016 – APRIL 2019

#### Guanxinte Machinery Production Management System / Shenzhen XingYao Cinema Platform / Chaozhou Life Website

As a key developer, my significant impact spans across diverse projects, particularly in the development of the equipment management module within the production management backend system, where I leveraged my C# programming expertise to achieve a **20%** improvement in query speed. Overseeing the cinema module in the theater system led to a **25%** enhancement in user experience. Furthermore, my contributions to the Chaozhou Life Website resulted in a **20%** increase in user engagement. Consistently dedicated to interface writing, module development, and system optimization.

**Skills:** C#, SpringBoot, Dubbo, Spring MVC, MyBatis, Guns, NodeJS, MySQL, Redis