

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

BitnestLoop [Github](#)

This project is a **DeFi platform** using **blockchain technology**, offering features like USDT circulation, crypto asset collateralized lending, profit distribution, referral rewards, decentralized storage, and robust security mechanisms. Users can earn daily interest through the Savings Box and use Mellion Coin (MEC) for various functions. I primarily worked on **backend development**, managing the admin panel for transactions and data analytics. Additionally, I was responsible for maintaining **Supabase** (based on **PostgreSQL**). I also used **TypeScript** and **JavaScript** to modify pages and database interaction APIs, gaining significant experience in smart **contracts** and **Web3 technologies**.

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

027 354 9581

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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