

# SHIXUN LI

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## SUMMARY

Graduate software engineer with extensive experience in full-stack web development, specializing in building scalable web infrastructure and creating engaging websites. Proven team player with strong communication, time management and problem-solving skills. Eager to find an exciting opportunity, willing to relocate for the right company.

## SKILLS

**Front-end:** React, Vue, Next.js

**Back-end:** Java, Python, C/C++, Spring, Flask, RESTful APIs, Redis

**DevOps:** Linux, Git, Docker, Kubernetes, Nginx, Terraform

**Database:** SQL, NoSQL, MySQL, SQLite, PostgreSQL, Oracle, MongoDB

**Efficient Tools:** Microsoft Office, VS Code, Postman, Jira, Notion

**Infrastructures:** Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure

## EXPERIENCES

**The University of Queensland**

**Brisbane, Australia**

*Research Fellow*

Jul 2023 - Jun 2024

- **Designed a decentralized data escrow system** by strategically planning the project with 5 key milestones, delivering all phases on schedule, and completing the project 3 weeks early.
- **Authored comprehensive documentation for the design and implementation** of a decentralized data escrow system, contributing to a research paper that is under consideration for future publication.
- Enhanced data protection by developing encryption methods and TLS connections within Intel SGX's isolated memory space, **ensuring the security, performance, and reliability of the backend system**.
- Developed a **React-based** data request DApp to interact with Ethereum smart contracts and Relay, achieving interaction speeds that are 150% faster than existing web pages.

**DouYu International Holdings Ltd**

**Wuhan, China**

*Software Engineer Intern*

Aug 2021 - Jan 2022

- **Collaborated with 3 cross-functional agile teams** to design and implement Vue-based revenue competition system for streamers, leading to a 150% increase in monthly revenue.
- Automated daily live stream **data monitoring using Python**, summarizing actionable insights that empowered senior leadership in strategic decision-making, achieving up to a 3x increase in live stream viewing duration.
- **Designed and developed APIs** with Spring Boot to retrieve over 100,000 CDKs, successfully **troubleshooting and debugging unit and integration tests**, reducing error rates by 16.3%.
- **Compiled weekly technical documentation on API design and development**, and created detailed milestone plans based on the upcoming week's sprint goals, ensuring timely project completion and continuous optimization.

## PROJECTS

**Pigeon – E2EE Messaging Application**

Apr 2024 - Jun 2024

- Led the software architecture and database design, drafted the project scope and schedule using Notion, partnered with a team of 5 and completed the project 2 days ahead of plan.
- Participated in developing a messaging service using Flask, enhancing data security by creating RESTful authentication APIs and integrating with a PostgreSQL database, resulting in a 25% reduction in security breaches.
- **Automated AWS deployments (S3, RDS, ECS) using Terraform scripts and Docker**, integrated with **GitHub Actions** to build **CI/CD pipelines**, optimizing resource usage and reducing costs.

**Weather Explorer – Weather forecast application** | [GitHub](#)

Apr 2023 - Jun 2023

- Architected a **microservices-based** backend with Spring Boot and RESTful APIs, integrated with **PostgreSQL database and Redis caches**. Conducted comprehensive API testing with Postman, decreasing errors by 27.4%.
- Implemented a complete discussion board front-end using Vue, integrating **Nginx** to enhance the server performance, achieving a 47.3% reduction in server response time.
- Utilized **Docker** for seamless application packaging and **leveraged Kubectl with CI/CD pipelines** to ensure high availability and scalability of a **Kubernetes deployment on a GCP VM**.

## EDUCATION

**The University of Queensland**

**Brisbane, Australia**

*Master of Computer Science*

Feb 2023 - Jun 2024

**The University of Queensland**

**Brisbane, Australia**

*Bachelor of Computer Science*

Feb 2020 - Dec 2022