

# SHIXUN LI

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## SUMMARY

Graduate software engineer with 3+ years of experience in full-stack development, specializing in front-end technologies like React and JavaScript, alongside back-end frameworks such as Python, C++, Java and database management. Proficient in cloud infrastructure tools like Docker, Terraform, and CI/CD pipelines. A proven team player with excellent communication, time management, and problem-solving skills.

## CERTIFICATIONS

**AWS Certified Solutions Architect – Associate** | [Credential](#)  
**AWS Certified Developer – Associate** | [Credential](#)

Sep 2024 – Sep 2027  
Oct 2024 – Oct 2027

## SKILLS

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

**Back-end:** C/C++, Django, Flask, Spring Boot, RESTful APIs

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

**Database:** MySQL, SQLite, PostgreSQL, MongoDB

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

## EXPERIENCES

**The University of Queensland** | [GitHub](#)

**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.
- 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.
- Engineered a **C/C++** Relay server to facilitate seamless communication between a DApp and Intel SGX enclaves, resulting in a 28.6% rise in workflow efficiency.
- Employed **Git for version control** and Azure Site Recovery to prevent regional disasters, ensuring high availability and resilience across deployments.

**Umart Pty Ltd**

**Brisbane, Australia**

*Tech Support/Retail*

Apr 2023 - Mar 2024

- Identified OS and software compatibility issues with customers, provided tailored solutions, and proactively discussed possible problems to prevent future occurrences.
- Proficient in M365 applications and Slack, skilled at resolving product issues, drafting warranty documentation, and collaborating with the warranty department to raise tickets and assist customers with process tracking.

**DouYu International Holdings Ltd**

**Wuhan, China**

*Software Engineer*

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.
- Designed and developed RESTful APIs with **Java Spring Boot** to retrieve over 100,000 CDKs, successfully troubleshooting and debugging **unit and integration tests**, reducing error rates by 16.3%.
- Utilized JPA as the Java ORM framework to efficiently operate MySQL databases within a microservices architecture, automating the delivery of daily streaming data via CSV files to support over 20 departments.
- Automated daily live stream data visualization using **Python**, summarizing actionable insights that empowered senior leadership in strategic decision-making, achieving up to a 3x increase in live stream viewing duration.

## PROJECTS

**Inventory Management System** | [GitHub](#) | [Live Demo](#)

Sep 2024 - Oct 2024

- Consulted with retail managers to gather and define **system design** requirements, ensuring the solution architecture and **database design** met business needs, resulting in a highly available, secure, and scalable solution tailored to the retail industry.
- Crafted a responsive **UI/UX** using Figma and implemented with **React, JavaScript, and Tailwind CSS**, enhancing the user experience by deploying on AWS S3 with CloudFront for global content caching and Route 53 for reliable DNS management.
- Architected a **VPC with private and public subnets**, ensuring robust security measures, implemented a **Python/Django**-based backend interacting with **ALB** and **NAT Gateway** within private subnets, and connected to a **PostgreSQL RDS database** inside database subnets, further enhancing the overall security.

- Containerized the entire project using **Docker** for both local and cloud deployment, streamlining manual processes through **Terraform** automation, ensuring scalability, usability, and portability across environments.

#### Pigeon | [Demo video](#)

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.
- Participate in the development of a messaging service using **Flask**, proficiently leveraging SQLAlchemy ORM with a **PostgreSQL** database to manage data operations, and implemented both WebSocket and RESTful APIs for real-time communication and user authentication.
- Automated **AWS (S3, RDS, ECS, etc)** deployments using **Terraform** scripts and **Docker**, integrated with **GitHub Actions to build CI/CD pipelines**, optimizing resource usage and reducing costs.

#### Weather Explorer | [GitHub](#)

Apr 2023 - Jun 2023

- Architected a microservices-based backend with **Java Spring Boot** and RESTful APIs, integrated with **MySQL** database. Conducted comprehensive API testing with Postman, decreasing errors by 27.4%.
- Utilized **Docker** for seamless application packaging and leveraged **Kubectl with CI/CD pipelines** to ensure high availability and scalability of a **Kubernetes** deployment on GKE clusters within **GCP**.

#### Meet

Sep 2022 - Oct 2022

- Architected a secured backend using **Spring Framework (Spring Boot, Spring Security)**, with RESTful APIs integrated into a MySQL database. Reduced errors by 23.4% through **comprehensive integration and unit testing with JUnit**.
- Built a dynamic discussion board front-end using Vue and Element-UI, enhancing the user experience and significantly improving server response time.

## EDUCATION

The University of Queensland  
Master of Computer Science

Brisbane, Australia  
Feb 2023 - Jun 2024

The University of Queensland  
Bachelor of Computer Science

Brisbane, Australia  
Feb 2020 - Dec 2022