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 Solution Architect – Associate | **Credential**   Sep 2024 – Sep 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**.

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