

SHIXUN LI

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<http://shixunli.com>

Summary

Recent Master of Computer Science student, I possess strong full-stack development and machine learning expertise, ready to address real-world business challenges. My background includes local sales and international internships, enhancing my communication, teamwork, and writing skills. I seek a role that promotes creativity, innovation, and professional growth, allowing me to apply my academic knowledge in practical settings and contribute effectively to my future team.

Skills

Soft skills: Problem-solving, time management, teamwork, critical thinking, analysis, leadership, communication, creativity, writing, self-learning

Programming language: Java, Python, SQL, HTML, JavaScript, C, PHP, R

Technical framework: SpringBoot, Express, React, Vue, TensorFlow, Scikit-learn

Efficient Tools: VS Code, PyCharm, IntelliJ, Jupyter Notebook

DevOps technology: Docker, Kubernetes, GitHub, Nginx

Platform: AWS, Azure, Google Cloud Platform

EXPERIENCE

Umart Online Pty Ltd

Brisbane, Australia

Sales/PC Builder

Apr 2023 – Present

- Expertly communicated intricate product features and delivered personalized customer service from various enquires, adeptly resolved component compatibility issues, culminating in a customer satisfaction rating exceeding 95%.
- Efficiently managed daily task schedules and successfully conducted stress tests on newly assembled computers, identifying and resolving driver compatibility issues to maintain high-quality standards.
- Proficient in Microsoft 365 applications, adept at addressing customer returns by resolving issues and drafting detailed warranty specifics in Word. Skilled in using Slack and Outlook for cross-departmental communication, achieving a 100% resolution rate for all warranty products to date.
- Continuously acquiring software and hardware knowledge from diverse sources such as Tech, Reddit, and YouTube, dedicated to offering more professional explanations and recommendations to customers.

DouYu International Holdings Ltd

Wuhan, China

Intern, Riot Game

Sep 2021 – Jan 2022

- Addressed a gap between business logic and technical specifications by developing self-designed event pages with VueJs and SpringBoot, leading to enhanced performance and scalability.
- Automated daily live stream data visualization using Pandas, Numpy and Tableau from Python libraries within Jupyter Notebook, offering actionable insights that empowered senior leadership in strategic decision-making.
- Consistently drove revenue growth by designing diverse events, resulting in a 150% surge in monthly revenue for female streamers in the "Teamfight Tactics" category.
- Enhanced viewer engagement through cross-departmental collaboration, leveraging Python and Excel for data statistical analysis, and achieving a 3x increase in live stream viewing duration for "Teamfight Tactics."

RESEARCH & PROJECTS

Data Escrow with SGX and Blockchain

July 2023 – Present

Research Associate

- Conducted an extensive literature review of confidential data escrow system, covering four aspects: secure communication, confidential computing, blockchain and key generation.
- Constructed a secure data repository utilizing Intel SGX and Ethereum blockchain, ensuring encrypted communication from inside of SGX to external entities through TLS protocols.
- Implemented Shamir's Secret Sharing for key distribution within SGX on a trusted Azure VM, enabling the division of private keys into segments for secure TLS-based client distribution, thereby bolstering key security, resilience, and recoverability.

Image Recognition – Machine Learning based Prediction

June 2023 – Nov 2023

- Utilized the Jupyter Notebook plugin in VS Code for advanced raw data pre-processing. Employed Pandas and Sklearn's robust pipeline functionalities, streamlining the process for effective normalization, standardization, and classifier selection, ensuring optimal data readiness.
- Selected an isolation-based random forest approach from five outlier detection methods for data analysis. Utilized Matplotlib to visually represent and analyse outliers, enhancing the understanding of data patterns and anomalies.
- Expertly executed cross-validation to evaluate and compare five distinct classifiers by using various Sklearn libraries, optimizing hyperparameter selection. Meticulously analysed varying prediction labels from the training dataset, focusing on accuracy and F1-scores, which guided the selection of the most efficient classifier. This strategic approach culminated in achieving an impressive final prediction accuracy rate of 98%.

MeEt - Discussion Board

Sep 2022 – Mar 2023

- Architected a microservices-based backend with SpringBoot and RESTful APIs, ensuring fast response and robust performance, bolstering application security using Spring Security.
- Enhanced user experience by integrating Vue as the JavaScript framework, complemented with Nginx optimization for efficient server performance.
- Constructed a robust MySQL-based database architecture, ensuring efficient storage and retrieval of diverse webpage data.
- Deployed the application using Docker for seamless packaging, with Kubernetes ensuring scalable and automated deployment on Google Cloud Platform.

Market Predictor – Neural Network & LSTM-Based Stock Forecasting

Sep 2022 – Nov 2022

- Leveraged data preparation techniques to identify valuable side data and exogenous variables, employing Seaborn for comprehensive data visualization to uncover potential correlations in an in-depth exploratory data analysis (EDA) phase.
- Manually conducted seasonal-trend decomposition, focusing on trend-cycle analysis, to inform ARIMA model application, achieving highly accurate stock price forecasts.
- Utilized neural networks and LSTM models to closely align the prediction curve with the original, thereby boosting the final accuracy and offering a robust basis for business analysis.

CalmPet – Calming Kids Amidst Noise

June 2022 – Nov 2022

- Established and spearheaded the implementation of the primary MVC-based framework, utilizing Flutter and Spring Boot for project development.
- Collaborated in deploying to Amazon Web Services and utilized H2 database for data storage.
- Proficient in using development tools like VS Code and Git, efficiently managing and sharing all project source code via GitHub. Actively engaged in team discussions for ongoing repository updates, significantly enhancing group development efficiency and code maintainability.

EDUCATION

The University of Queensland

Master of Computer Science

Brisbane, QLD

Feb 2023 – June 2024

The University of Queensland

Bachelor of Computer Science

Brisbane, QLD

Feb 2020 – Dec 2022