

Yanhua Zhang

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EDUCATION

Western University

London, Canada

Master of Engineering in Software Engineering Graduated

Sep 2023 — Aug 2024

- Notable Courses: Machine Learning, Data Management and Applications, Web Application Development

Carleton University

Ottawa, Canada

Bachelor of Computer Science (Honors)

Sep 2019 — May 2023

- Notable Courses: Web Applications Fundamentals, Database Management Systems, Project Management

SKILLS

Project Management & Collaboration

- Agile (Scrum, Kanban) · Waterfall · Microsoft Project · Jira · Confluence
- Risk Management · Resource Allocation · Stakeholder Communication · Process Improvement
- Microsoft Teams · SharePoint · Slack · Excel (Pivot Tables, Dashboards) · Microsoft Visio · Google Data Studio

Technical Skills

- Cloud Platforms: Google Cloud (GKE/Cloud SQL) · AWS · Azure · Firebase
- DevOps & Tools: Docker · Kubernetes · Git · CI/CD Automation · Linux System Administration
- Programming Languages: Python · JavaScript (ES6+) · Java · C/C++ · HTML5/CSS3
- Frontend & Backend: React · REST APIs · Ant Design · Elasticsearch Integration
- Backend: Node.js · Express · JWT Authentication
- Databases: MySQL · PostgreSQL · Firebase Realtime Database

EXPERIENCE

Cloud-based Bookstore Web Application – Project Team Leader

Jan 2024 — Apr 2024

- Directed the end-to-end delivery of a cloud-native bookstore platform, from requirements to launch, leading a cross-functional team and coordinating with external vendors.
- Ran Agile ceremonies via Microsoft Teams, enabling effective distributed team communication and timely issue resolution. Built a SharePoint knowledge hub and used Excel for budget tracking, risk registers, and KPI dashboards.
- Led adoption of a hybrid Elasticsearch + recommendation engine, enhancing search speed and relevance.
- Oversaw multi-zone Kubernetes deployment on GCP with auto-scaling, ensuring stable performance during peak loads. Implemented automated CI/CD pipelines with GitLab and Helm, streamlining releases and reducing deployment risk.

Cryptocurrency Price Forecasting - LSTM Neural Networks – Project Team Leader

Sept 2023 — Dec 2023

- Led a research initiative to design and implement a deep learning model for Ethereum (ETH) price prediction using on-chain Uniswap v3 data indexed through The Graph API.
- Automated blockchain data extraction with Python (GraphQL), performing feature engineering and normalization to prepare multi-token liquidity and price datasets.
- Built and evaluated multiple time-series architectures (LSTM, GRU, Transformer) with TensorFlow and Keras; identified the optimal LSTM model achieving $R^2 = 0.8962$ and $RMSE = 0.039$.
- Conducted comparative experiments between single-token and multi-token datasets, proving that multi-asset inputs degraded model performance due to noise in inter-token correlations.

Bank Of China – IT Support & System Administration

May 2019 — Aug 2019

- Set up and managed iNode Smart Client for network access control and real-name authentication, ensuring secure and stable connectivity for enterprise users.
- Installed, maintained, and updated McAfee antivirus software, performing regular threat scans, virus definition updates, and troubleshooting security alerts.
- Administered domain user accounts for office computers with real-name verification, including account creation, permission assignment, and password resets.
- Set up and supported common workplace tools such as Surfen Reader, WinRAR, SEP Reader, as well as printer and scanner drivers, ensuring seamless integration with office workflows