

# Zhenxiang Wang

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## OBJECTIVE

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A self-motivated, detail-oriented, reliable and dedicated developer is seeking a web developer role to utilize programming expertise and logical thinking skills to provide the company with excellent software solutions. Offering expertise in Web Development, Mobile Application Development, Machine Learning, Natural Language Processing, and Cloud Computing.

## PROFESSIONAL SKILLS

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- **Front-end:** React, JavaScript, TypeScript, ES6, HTML5, CSS3, Sass, Less, Bootstrap, jQuery, D3.js, Responsive Web Design.
- **React:** Create-React-App, React-Router, Redux, React-Redux, React-Thunk, React Hooks, Higher-Order Components, Styled-Components, Axios, Lodash, Moment, Reselect, UI(Ant Design/Material UI/Echart/Rich Text Editor), Testing(Jest/Enzyme/Sinon/React Testing Library), React-Ga.
- **Back-end:** .Net Core, Nodejs, Express, Java, Python, Ajax, EJS, RESTful API.
- **Database:** SQL(MySQL/PSQL), NoSQL(MongoDB/CouchDB).
- **Could:** Azure, AWS(EC2/S3), Docker, Nectar.
- **Mobile:** Swift, Android, Wechat Mini-Program, Progressive Web Apps.
- **Machine Learning:** Natural Language Processing, Deep Learning, Reinforcement Learning, TensorFlow, Keras, Scikit-Learn, Numpy, NLTK, Matplotlib, Weka.
- **Others:** Azure DevOps, CI/CD, Git, Npm, Yarn, Prettier, ESLint, Webpack, Heroku, WordPress, Agile, Scrum, SEO.

## WORK EXPERIENCE

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### LMI Group Pty Ltd

Mar 2020 - Present

#### Front End Developer

Responsible for designing, building, updating, and maintaining the company's core e-services websites, such as Risk Coach, Continuity Coach, Survey Coach, Support Services, Claim Comparison, Policy Comparison, etc.

- Determined the structure and designed of web pages, and maintained brand consistency throughout the design.
- Built reusable code for future use, and evaluated code to ensure it meets industry standards, is valid, is properly structured, and is compatible with all browsers, and responsive in mobile devices and tablets.
- Worked in a multidisciplinary team with other professionals such as back-end developers and web designers.
- Developed complex interactive features to enhance the user experience, and struck a balance between functional and aesthetic design.
- Optimized web pages for maximum speed and scalability, and Search engine optimization.
- Websites: <https://lmigroup.io/eservices/>

### Monkey King Migration & Education Service Pty Ltd

Apr 2019 - Mar 2020

#### Web Developer

In charge of the planning, designing, updating, upgrading, deploying, and maintaining of the company's websites.

- Designed and developed dynamic, responsive, and interactive websites that ensure high traffic, page views, multi-device compatibility, and user experience, which increased user clicks, and subsequently customer purchases by 50%.
- Upgraded the website from front-end static display pages to a website with a back-end server and database.
- Designed and developed a background management system to manage user permissions, organize online courses, update learning materials and visualize user data.
- Search engine optimization, which increased the ranking of the website to the top 5.
- Websites: 1. [www.linghang.com.au](http://www.linghang.com.au) 2. [www.monkeyking.com.au](http://www.monkeyking.com.au) 3. <https://linghang.dewx.net/>

## EDUCATION

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### The University of Melbourne

Feb 2017 - Nov 2018

Information Technology Master of

Melbourne

- **Grade:** H1
- **Honours:** First Class Honor
- **Curriculum:** Statistical Machine Learning, Web Search and Text Analysis, AI Planning for Autonomy, Cluster and Cloud Computing, Distributed Systems, Mobile Computing Systems Programming, Software Modelling and Design, Database Systems, Software Processes and Management, etc.

### Jinlin University

Sep 2012 - Jun 2016

Finance Bachelor of

Changchun

- **GPA:** 3.46 / 4.0 (Top 5%)
- **Honours/Awards:** First-Class Scholarship, Advanced Individuals Scholarship.
- **Curriculum:** Mathematical Analysis, Advanced Algebra, Probability Theory, Mathematical Statistics, Mathematical Modelling, Applied Stochastic Processes, Applied Regression Analysis, Mathematical Economics, Econometrics, Financial Computation, etc.

## PROJECTS

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### Admin Management System

Sep 2019 - Mar 2020

Individual

A single page application of the admin management system, separating the front-end PC application and the back-end application.

- Implemented user management, product classification management, product management, authority management and other functional modules.
- Front-end: React + Redux + Antd + Axios + ES6 + Webpack and other technologies.
- Back-end: Node + Express + MongoDB and other technologies.
- Adopted modularization, componentization and engineering model development.
- Github: <https://github.com/ZhenxiangWang/AMS>

### My Blog

Jun 2019 - Aug 2019

Individual

A single page application of a personal blog website.

- Implemented user login, search, topic recommendation, writing articles and other functional modules.
- Front end: React + Redux + React Router + Immutable.js + Antd + Axios + ES6 and other technologies.
- Simple design to meet the needs of my writing technology blogs.
- Github: <https://github.com/ZhenxiangWang/BLOG>

### Sentiment Analysis of Social Media in Melbourne

May 2018 - Jul 2018

Team Member

Big data analysis of the sentiment data of Twitter users around Melbourne.

- Cloud: Nectar Cloud + Automatic Deployment: Ansible
- Preprocessing: crawled big real-time Twitter data in Melbourne in parallel and stored it in CouchDB in Nectar Cloud.
- Modelling: calculated Twitter's sentiment scores utilizing CNN + LSTM algorithms.
- Analysing: analysed relationships between sentiment scores and other regional data (proportion of drunken people, education level, per capita income, etc.)
- Visualization: implemented a real-time front-end website to visualize results.
- Github: <https://github.com/ZhenxiangWang/Cluster-Sentiment-Analysis>
- Youtube: <https://youtu.be/nlcV2GNyFpQ>

### Instagram-like Social Media Mobile App

Sep 2018 - Dec 2018

Team Member

An IOS social media mobile application implemented in Swift, which had a similar function to Instagram. It supports:

- Taking photos and apply filter effects and share it.
- Building a micro-community based on these photos, where you can interact with other users through actions such as attention, comment, praise, etc.
- Github: <https://github.com/ZhenxiangWang/MobInstagram>
- Youtube: <https://youtu.be/V4kD2nAMP9U>

### **Deep Reinforcement Learning Algorithms Analysis and Optimisation**

Feb 2018 - Jun 2018

Team Leader

Comparing the leading value-based and policy-based deep reinforcement learning AI agents under various game circumstances to explore the reasons for the performance difference and combine them to do the algorithm optimization.

- Environment: 2D and 3D games on the OpenAI platform and the Microsoft Malmo platform.
- Tools: TensorFlow + Python + Numpy + Matplotlib.
- Value-based Algorithms: Deep Q-Network, Double DQN, Duling DQN, Prioritized Experience Replay.
- Policy-based Algorithm: Prioritized Experience Replay.
- Combination: Asynchronous Actor-Critic algorithm, which had the best performance of all the games.
- Github: <https://github.com/ZhenxiangWang/DeepMine>

### **Intelligent Question Answering System**

Mar 2018 - May 2018

Team Leader

An intelligent question answering system, which can answer the most relevant answers when you input questions. The technical details are as follows:

- Implemented a problem classifier based on LSTM.
- Improved BM25 algorithm to search candidate sentences.
- Performed name entity recognition.
- Answer reordering based on syntactic and semantic information.
- Github: <https://github.com/ZhenxiangWang/Question-Answering-System>

### **Link Prediction in Network**

Jul 2018 - Oct 2018

Team Leader

Predict the existence of a link between two nodes in a network. Achieved AUC 0.855.

- Preprocessing: used NetworkX to construct both directed and undirected graph based on the given network.
- Feature Engineering: Resource Allocation Index + Jaccard Coefficient + Adamic-Adar Index + Preferential Attachment + Cn Soundarajan Hopcroft + Ra Index Soundarajan Hopcroft + Within Inner Cluster.
- Models Selection: LightGBM + DNN + Logistic Regression (Baseline)
- Feature Removal: a set of experiments to remove features and re-trained the model.
- Parameters Tuning: applied Bayesian Optimization automatic approach to find optimal hyper-parameters.
- Github: <https://github.com/ZhenxiangWang/Link-Prediction>

### **Shared Whiteboard**

Aug 2017 - Oct 2019

Individual

A Shared Whiteboard Based on multi-threaded network programming implemented in Java, which supports multi-person online drawing and chatting.

- Github: <https://github.com/ZhenxiangWang/Shared-White-Board>

### **SOFT SKILLS**

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- **Languages:** Mandarin: Proficient; English: PTE (90), Diploma of Interpreting (Mandarin-English).
- **Mathematics and Statistics:** Strong background and proficiency in advanced Mathematics and Statistics.
- **Problem-Solving:** Solve problems with lateral thinking, logical reasoning and persistence.
- **Communication:** Communicate with clarity, respect, confidence, and friendliness.
- **Teamwork:** Engage in teamwork with active listening, collaboration and idea exchanging.