# **△** Personal Statement

Proven leader in driving data science and digital transformation portfolios. Strong product mindset and stakeholder management skills, delivering impactful, value-driven solutions. Specialist in NLP with extensive R&D and consulting experience across various industries.

### **Work Experience**

### Atlassian

Principal Machine Learning Engineer

> Adopt GenAI at scale with quality

### Judo Bank

GenAl and Data Science Lead

- Led and shaped GenAI/LLM strategy, prioritising use cases, building capability roadmaps, and defining ROI metrics
- > Owned and drove a GenAI POC which significantly enhances internal banker's work efficiency, validated with trial user groups

### **Endeavour Group**

Data Science Chapter Lead

- > Set goals, priorities and roadmaps for the digital transformation data science team (as a line manager of 12 permanent data scientists from Junior to Principal levels), and provide support for tribe agile delivery
- > Drive and execute initiatives that empower data-driven business and optimisation, e.g. build a generic forecast engine and tailor it for different departments from logistics, merchandise to store rostering
- > Enable team to build data science portfolios for efficient and effective MLOps, e.g. Feature Store, Machine Learning CookieCutter

### Accenture

Tech Arch Delivery Manager and Delivery Lead

- > Led the new platform design and data migration for a client's business critical legacy system
- > Oversaw tech architecture design and implementation for a client's 5G telco system roll-out
- > Set up and improved process, culture and capability for a diverse team as a delivery lead
- > Coordinated business units and tech teams to unblock barriers and ensure shared goals
- > Brought next best actions and improvement plans for managements in quarterly roadmap plannings

### Kaplan

Senior Data Scientist/NLP Specialist

- > Optimised a text-based financial compliance system with more than 100x speed up with efficient algorithms
- > Drove a serverless design in cloud which significantly boosted the system throughput and scalability
- > Applied active learning and other pragmatic methods to improve compliance system accuracy
- > Co-developed an in-house data anonymisation system for PII Redactions

# Sydney Startup

Data Scientist

> Designed and implemented an automatic user profile summarisation system. The work features data crawling, cleaning, reconciliation and natural language generation from various social media sources. The deliverables facilitate online recruiters for more effective and efficient talent acquisitions

Sydney, Australia s, and defining ROI

Apr 2022 – Dec 2023 Sydney, Australia

## Sep 2018 – Mar 2022

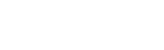
Sydney, Australia

May 2017 – Aug 2018

Mar 2016 - Mar 2017

Sydney, Australia

Sydney, Australia



**61-425-719-696** 

✓ TQ0100R@gmail.com

# **Bo HAN**

Dec 2023 – May 2024

July 2024 - Now

Sydney, Australia

#### **IBM Research**

**Research Scientist** 

> Led the design and implementation for a number of social media analytics with ML and NLP, including (a) a text-based geotagger, (b) Social Media Analytics in Real Time and (c) a biomedical named entity recogniser. The deliverables have been utilised by clients from fashion, sports and insurance

## Melbourne University/NICTA

PhD and Research Assistant

> Applied NLP/ML methods to improve the utility of social media for various analytics, including "Early detection and mitigation of disastrous events with broadband-enabled social interaction technologies"

## Microsoft Research Asia

Jan 2007 – Aug 2007, Sep 2009 – Jun 2010 Beijing, China

- Fulltime Research Intern
- > Co-developed an English writing assistant which has been productised as Bing Search Dictionary in China. My work includes bilingual text mining, short sentence categorisation, incremental bilingual text crawling. This product had won 2010 Wall Street Journal Asian Innovation Award

# 🗱 Professional Skills

**Cloud** Best practices for multi-tier scalable and reliable solutions, high availability and disaster recovery design, serverless/containerization architecture, complex program delivery, data migration and integration, enterprise hybrid solutions

Frontend HTML, CSS, Javascript (JQuery and React)

Programming Python, R, Bash, Java, C#, C/C++

**Modelling** Jupyter, pandas, scikit-learn, spaCy, word2vec, PyTorch, transformers, AWS SageMaker, GCP Vertex AI **Backend** MySQL, Postgres, Redis/Memcached, Kafka, MongoDB

**Container/DevOps** Docker, Kubernetes/OpenShift, git/bitbucket, JIRA/Trello, Jenkins/Bamboo

### Education

**Melbourne University** PhD in Computer Science (Natural Language Processing)

## Dalian University of Technology

Bachelor and Master in Software Engineering

2010 – 2014 Melbourne, Australia 2003 – 2009 Dalian, China

# 🌣 Extra Information

**My research** focuses on Improving the Utility of Social Media with Natural Language Processing. In particular, I studied Twitter text normalisation and geolocation prediction in depth. A tweet length summary of this work is *U wanto undrstnd TWEETS lik dis? Make them readable like this; and if there are too many to read, select those from a region.* 

## **Professional achievements**

- > Certified AWS Solution Architect Associate, Professional and Google Cloud Digital Leader
- > Published a few top-tier Natural Language Processing (NLP) conference and journal papers (e.g. ACL, EMNLP, COLING and JAIR). My H10-index is 15 and the most cited paper is over 500 (by 2020). See Google Scholar.
- > Co-organised two international workshops on social media analytics (W-NUT 2015 and W-NUT 2016).
- > Held two issued patents in the United States (US9569551B2, US9697245B1).
- > Held one software copyright in China (2015SR225534).

Jul 2010 – Mar 2014 Melbourne, Australia

n Asia