Bo HAN

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🌐 Website

⚗ Personal Statement

I am a problem solver and capability enabler with R&D and consulting experience in media, telco, retail, health and financial services. My analytical mindset, agile prototyping skills, team leadership, product and programme delivery experience enable me to develop impact-oriented solutions for business value creations.

◔ Work Experience

Endeavour Group
Data Science Chapter Lead

Apr 2022 – Present
Sydney, Australia

> Set goals, priorities and roadmaps for the data science team 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
Delivery Lead/Tech Arch Delivery Manager

Sep 2018 – Mar 2022
Sydney, Australia

> 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 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

May 2017 – Aug 2018
Sydney, Australia

> Optimised a text-based financial compliance system with more than 100x speed up
> 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 personal and identifiable information

Hugo AI (Sydney Startup)
Data Scientist

Mar 2016 – Mar 2017
Sydney, Australia

> 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

IBM Research
Research Scientist

Apr 2014 – Mar 2016
Melbourne, Australia

> 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

Jul 2010 – Mar 2014
Melbourne, Australia

> 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
Fulltime Research Intern   *Beijing, China*

> 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 (a) best practise for multi-tier scalable and reliable solutions; (b) design for high availability and disaster recovery; (c) serverless/containerisation architecture; (d) complex programme delivery; (e) data migration and integration; (f) enterprise hybrid solutions

Frontend HTML, CSS, Javascript (JQuery, Vue 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

⚙ General Skills

Management, Leadership and Communications

> Identify high-value opportunities from business context, and map ideas into products and services
> Deliver objectives and impact-oriented solutions with best practise
> Enable data analytics capability from scratch for a practise
> Manage stakeholder expectations and come up with plans for next best moves
> Coordinate across business functions and work as a team
> Present to diverse audiences, e.g., invited talks in universities, showcases for partners and clients

Language English (professional), Mandarin (native), Japanese (learner)

🎓 Education

Melbourne University   2010 – 2014
PhD in Computer Science (Natural Language Processing)   *Melbourne, Australia*
Dalian University of Technology   2003 – 2009
Bachelor and Master in Software Engineering   *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 and Professional
> Published a few top-tier 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 for a full list of publications.
> 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).