# 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, 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

### Accenture
*Data Engineering Manager*

Sep 2018 – Present
*Sydney, Australia*

> Oversaw tech architecture design and implementation for a major telco 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
*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
*Fulltime Research Intern*

Jan 2007 – Aug 2007, Sep 2009 – Jun 2010
*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

**Backend**  MySQL, Postgres, Redis/Memcached, Kafka, MongoDB

**Container/DevOps**  Docker, docker-compose, git/bitbucket, JIRA/Trello, Jenkisn/Bamboo, Ansible

## ⚙ 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).

**Projects**  I like coding side projects for fun. They are like Unix utilities dedicated to solve a particular pain point. The most recent one is panda-lens.com. It is a pure data-driven real-time trend analysis platform.

**Hobbies**  Cook gourmet food daily; Play badminton weekly; Travel 3 times a year; Had one detective novel (written in Mandarin)