Bo HAN

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⊕ Website

🎯 Work Experience

Accenture
Tech Arch Delivery Manager

Sep 2018 – Present
Sydney, Australia

- Improved critical business service response time, availability and stability by transforming complex legacy IT assets into a RESTful container orchestration design.
- Oversaw the design and implementation for a client's 5G infrastructure management which enables agile and reliable change managements and reduces operational costs.
- Coordinated business units and tech teams to unblock barriers and ensure shared goals are on the track.
- Set up process, culture and capability for a multi-vendor diverse team from scratch.

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 asset 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".
- My research focuses on Improving the Utility of Social Media with Natural Language Processing. 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.*

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.

🎓 Education

Melbourne University   2010 – 2014
PhD in Computer Science (Natural Language Processing/Machine Learning)   *Melbourne, Australia*

Dalian University of Technology   2003 – 2009
Bachelor and Master in Software Engineering   *Dalian, China*

⚙️ Professional Skills

Certifications: AWS Solution Architect Associate and Professional

Frontend: HTML, CSS, Javascript, JQuery, React

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

Modelling: Jupyter, pandas, scikit-learn, spaCy, PyTorch/TorchServe, Flask/gunicorn/Nginx, transformers

Backend: Postgres, MySQL, Redis/Memcached

Container: Docker, Kubernetes/OpenShift, AWS ECS

DevOps: git/bitbucket, JIRA/Trello, Jenkins/Bamboo

Cloud:

> Best practise for multi-tier scalable and reliable solutions (e.g. ALB, EC2/ECS, VPC)
> Design for high availability and disaster recovery (e.g. backup and recovery RTO/RPO)
> Serverless and containerisation architecture (e.g. Lambda, API gateway)
> Data migration and integration (e.g. AMS and DMS)
> Enterprise journey to cloud and hybrid solutions (e.g. AWS storage gateway, Route 53)

Consulting:

> 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 to build 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

Achievements:

> 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).
> Creator and maintainer for panda-lens.com: a pure data-driven real-time trend analysis platform.