

# TINY PANG

Data Scientist, Data Infrastructure Engineer and Data Product Manager

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## Experience

### Canva.com

#### Senior Data Scientist & Data Team Lead

*Product Analytics, Data Infrastructure, Product Manager*

**Nov 2015 - present**

- Solely responsible for designing and implementing new data warehousing pipeline and ETL process using Treasure Data and Python to merge MySQL, Redshift, Segment, MongoDB, Stripe and other data sources. This serves over 2 billion writes a month.
- Managed data team by setting goals and direction for data engineers and growth analysts as well as interviewing all analyst candidates.
- Mentored team of analysts on technical SQL and Python foundations as well as giving data exploration direction.
- Solely responsible for selecting and maintaining third party product integrations with Treasure Data, Segment, Vero, Amplitude and Periscope.
- Modelled user behaviour using MySQL, Redshift, Hive, Presto and Google BigQuery queries to assist leadership and product teams with business decision making and PR campaigns.
- Presented data insights using visualisation tools such as Periscope, Excel, Python, Pandas, Numpy and Matplotlib to founders and management team to motivate data driven feature development.
- Standardised statistical practices for experiments and A/B tests company wide using confidence intervals and Frequentist statistics.
- Created and taught data onboarding workshops to equip all team members with the skills to do basic user data analysis and perform statistically sound product experiments.

*Canva is Australia's fastest growing startup, with over 25 million users and over 150 million designs created. At just over 3 years old, Canva has a valuation of over \$345 million.*

*Canva makes graphic design amazingly simple by bringing together an easy to use design tool and a library of over 1 million stock images.*

### Freelancer.com

#### Data Scientist

*Product Analytics, Product Manager, Data Reliability*

**March 2013 - Nov 2015**

- Increased revenue by 15% for matchmaking product group through researching and solving buyer liquidity problems in the business marketplace using Python and Redshift.

*Freelancer.com is the world's largest freelancing and crowdsourcing marketplace*

- Senior maintenance engineer on in-house analytics dashboarding tool using Python, Matplotlib, Apache and Git.
- Developed unique holiday promotions that increased revenue and user engagement by 500% during traditionally low seasons.
- Developed matchmaking algorithms using Deep learning architectures such as Deep Belief Networks and Stacked Autoencoders using Python, Theano, Numpy and SciPy.
- Engineered and maintained ETL process for Amazon Redshift Data Warehousing for matchmaking product group.

*with over 22 million users in 247 countries.*

*Freelancer.com debuted on the Australian Stock Exchange with a market cap of \$650 million.*

## Education

**University of Sydney**

**2010 - 2014**

**Bachelor of Information Technology (Research Hons. I) (Computer Science)**

Won best Masters research prize for thesis on *“Learning audio features for recommendation systems with deep learning”*

**Bachelor of Science (Pure Mathematics)**

## Volunteering

I am passionate about encouraging everybody, particularly minorities, to try STEM. I have dedicated my time to this cause through leadership, public speaking and mentoring roles.

## Speaking

- **Pint of Science Festival** - Spoke at national science festival on ‘AI, Deep Learning and Killer Robots’.
- **Higher Degree Research Conference** - Speaker on Professional Careers panel discussing the changing meaning of innovation in the business world
- **Google CS4HS** - Panellist at computer science workshop for high school teachers

## Mentoring

- **Girls Programming Network** - Lectured at quarterly programming workshops for school aged girls that encouraged the enjoyment of coding and other STEM projects.
- **Curious Minds Programme** - Mentored high school aged girls one-on-one and guided them in producing a successful science project from start to finish over a period of 6 months.
- **Search for the Next Tech Girl SuperHero** - Judged apps produced for competition encouraging school aged girls to build new technologies that benefited their communities

## Leadership

- **University of Sydney Alumni Representative** - Profiled for university prospectus, marketing materials and videos for promotion of computer science and mathematics study
- **Google Careers with Code** - Profiled for Google’s national magazine promoting computer science and engineering careers to university students
- **University of Sydney IT Society** - First female president of the university computing society for over 1000 students.