

# Chris Mahoney

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## PROFESSIONAL EXPERIENCE

### Data Scientist: Contract Logistics Specialist

- DB Schenker**    📅 01/2022 - Ongoing    📍 Sydney, Australia
- **Lead Data Scientist:** For all Warehousing Analytics projects and innovations across Australia & New Zealand.
  - **Agile Champion:** Leading multiple Scrum & Kanban projects with both domestic and international teams.
  - **Lead Developer:** For PowerBI dashboards, Azure big-data pipelines, and applied machine-learning algorithms.
  - **Researcher:** For advanced mathematical models (machine learning & operations research), and productionisation of advanced analytical concepts.
  - **Educator:** Enthusiastic knowledge sharing of processes, concepts, & successes, through regular tech-talks, blogs, newsletters & 1-on-1 mentoring.

### Academic & Support Lecturer

- University of Technology Sydney**    📅 02/2020 - Ongoing    📍 Sydney, NSW
- **Casual Academic:** Lecturer for Deep Learning
  - **Casual Academic:** Masters of Data Science and Innovation
  - **Board Member** (Student Rep): School of Transdisciplinary Education
  - **Support Lecturer:** Machine Learning Algorithms and Applications
  - **Teachers Assistant:** Data Algorithms and Meaning

### Senior IT BA: Technical Lead & AU Innovation Champion

- DB Schenker**    📅 10/2019 - 12/2021    📍 Sydney, NSW
- **Lead Business Analyst:** IT Solutions Development and Implementation for Contract Logistics.
  - **Demand Management:** Prioritisation and Delegation of Software Development tasks.
  - **Innovation Management:** Business Advocate for new products/services/processes for Innovation & Digitisation in Australia.
  - **Change Management:** Key Coordinator between Business Operations and IT Development teams for Application Enhancements.
  - **Analytical Solutions Leader:** Business Architect for Machine Learning, Data Modelling, Predictive Analytics, Artificial Intelligence, and Big Data Solutions.
  - **Team Leader:** NextGen IT Team for System Development and Customer Migration.
  - **Iteration Manager:** Daily Agile Meetings and Kanban-style IT Project management.

### IT Business Analyst: NextGen System and Business Innovation

- DB Schenker**    📅 06/2018 - 10/2019    📍 Hoxton Park, NSW
- **Lead Developer:** Live and interactive BI Dashboards using SSRS and PowerBI.
  - **Lead Analyst:** IT Solutions Development and Implementation.
  - **Systems Analyst:** Providing intimate systems support for key customer during large-scale product launch.
  - **IT Specialist:** IT Security Auditing and migration to Secure-Shell connections.
  - **Implementations Specialist:** Customer migrations from Legacy to NextGen Warehouse Management System.
  - **Subject-Matter Expert:** Data visualisation, real-time operational reporting, and user-friendly dashboard design.

### Business Systems Analyst

- Toll Global Express**    📅 05/2016 - 11/2017    📍 Eastern Creek, NSW
- **Lead Analyst:** Customer forecasting and operational performance.
  - **Developer:** Depot-level and customer-specific forecasting models.
  - **Forecaster:** t-SQL-based data model to forecast received volume per customer, per freight-profile, per day; achieving an accuracy of within 2.5%.
  - **Data Visualiser:** Dynamic analytics dashboards and interactive reports.

### Previous Roles

- **National Service Quality Analyst** (11/2017 - 05/2018) (TNT/FedEx)
- **Business Analyst - Operations Support** (08/2015 - 05/2016) (Toll IPEC)
- **NSW Operations Manager** (05/2015 - 06/2018) (Toll Specialised Solutions)
- **NSW Risk Coordinator** (06/2014 - 07/2015) (Toll IPEC)
- **Internal Sales Consultant** (05/2013 - 06/2014) (Toll IPEC)
- **PM Shift Operations Supervisor** (11/2011 - 05/2013) (Toll Express)

## ABOUT ME

I am an astute and engaged individual. Whilst working full-time, I have completed a double degree part-time, and a Master's degree. I continue to Volunteer with Rotary International; focusing on leadership development programs. I can maintain high levels of success in all areas of my professional life. As proven by my achievements: Dean's Medal, Golden Key, Citizens Scholar, Academic Engagement Award. I am keenly interested in Data Science, Innovation, Continuous Improvement, Lean Six Sigma, Big Data Analytics. I am competent in multiple programming languages (Python, R, SQL, M), and am experienced in many analytical platforms (SSRS, PowerBI, MiniTab, RStudio, Azure, Jupyter). Moreover, I have a very pragmatic approach to work, always asking questions like "How can this improve business outcomes?". I strike a perfect balance between business acumen and technical expertise.

## APPLIED LEADERSHIP

### Rotary Youth Leadership Awards (RYLA)

**Facilitator:** Summer 2016, 2019 to 2023  
**Participant:** Summer 2015

### Rotary Youth Program of Enrichment

**Facilitator:** Summer 2015 to 2019  
**Mentor:** Winter 2015 to 2019

### International Leadership Programme (ILP)

**Participant:** Winter 2017

### Model United Nations Assembly (MUNA)

**Adjudicator & Coach:** 2017 to Current

### Rotary International

**Rotarian:** March 2015 to Current

## REFERENCES

### Dr Marius Brand

Head of Innovation & Digitisation at DB Schenker

### Dr Kailash Awati

Senior Lecturer, Data Science & Innovation at UTS

### Dr John Keogh

Barrister at Law, and Fellow Rotarian

### Claudio Nieto

CIO for Australia & New Zealand at DB Schenker

### Dr Marion Cornish

Senior Lecturer for Strategic Management at WSU

## ACADEMIC EDUCATION

### Master Data Science & Innovation

University of Technology Sydney

📅 2019 - 2022 📍 Sydney, NSW

GPA  
6.9 / 7.0

### Bachelor of Applied Leadership and Critical Thinking

Western Sydney University

📅 2014 - 2018 📍 Parramatta, NSW

GPA  
6.0 / 7.0

### Bachelor of Business and Commerce - Advanced Business Leadership (Management)

Western Sydney University

📅 2012 - 2017 📍 Parramatta, NSW

GPA  
6.24 / 7.0

### Diploma of Management

Benchmark College

📅 2011 - 2011 📍 Penrith, NSW

GPA  
7.0 / 7.0

### Cert IV in Training and Assessment

Benchmark College

📅 2011 - 2011 📍 Penrith, NSW

GPA  
7.0 / 7.0

## PUBLICATIONS

### How to Use GitHub Webhooks, Docker, and Python for Automatic End-to-End Deployments

Better Programming

📅 04/2022 🔗 <https://www.chrismahoney.com.au/b/github-webhooks>

### The Power of Code Snippets

CodeX

📅 08/2021 🔗 [www.chrismahoney.com.au/b/code-snippets](http://www.chrismahoney.com.au/b/code-snippets)

### Mental Models and Social Situations

Better Humans

📅 07/2021 🔗 [www.chrismahoney.com.au/b/mental-models](http://www.chrismahoney.com.au/b/mental-models)

### Reinforcement Learning

Towards Data Science

📅 06/2021 🔗 [www.chrismahoney.com.au/b/reinforcement-learning](http://www.chrismahoney.com.au/b/reinforcement-learning)

### Vanilla Neural Networks in R

Towards Data Science

📅 11/2020 🔗 [www.chrismahoney.com.au/b/vanilla-neural-networks](http://www.chrismahoney.com.au/b/vanilla-neural-networks)

### Exploring Undernourishment

Start It Up

📅 10/2020 🔗 [www.chrismahoney.com.au/b/exploring-undernourishment](http://www.chrismahoney.com.au/b/exploring-undernourishment)

### Addressing The John Smith Problem

Towards Data Science

📅 07/2020 🔗 [www.chrismahoney.com.au/b/addressing-john-smith](http://www.chrismahoney.com.au/b/addressing-john-smith)

### Reinforcement Learning in the Warehousing Industry

Artificial Intelligence in Plain English

📅 07/2020 🔗 [www.chrismahoney.com.au/b/reinforcement-learning-warehousing](http://www.chrismahoney.com.au/b/reinforcement-learning-warehousing)

### The Contemporary Logistics Industry

Medium

📅 04/2019 🔗 [www.chrismahoney.com.au/b/contemporary-logistics-industry](http://www.chrismahoney.com.au/b/contemporary-logistics-industry)

### Western Introduces Academy Excellence Awards

Western Sydney University

📅 11/2017 🔗 [http://bit.ly/CM\\_AcadAward](http://bit.ly/CM_AcadAward)

## SKILLS

### Analytical Platforms

Excel PowerBI SSRS MiniTab

DataBricks RStudio Jupyter

### Languages / Environments

SQL Python R M SSRS

PowerBI Azure GitHub AWS

### Data Science / Machine Learning

AzureML caret Sk-Learn tidyverse

TensorFlow Python R PyTorch

## SKILLS

### Leadership



### Artificial Intelligence & Machine Learning



### Data Analysis



### Change Management



### Logistics



## INTERNATIONAL EXPERIENCE

### International Leadership Programme

WYSE International

📅 07/2017 - 08/2017 📍 Florence, Italy

### International RYLA Conference

Rotary International

📅 09/2015 - 10/2015 📍 Chicago, USA

### University Scholars Leadership Symposium

Humanitarian Affairs

📅 07/2014 - 08/2014 📍 Phnom, Cambodia

### Human Resources Internship

Habitat for Humanity

📅 12/2013 - 02/2014 📍 Saigon, Vietnam

### NextGen WMS Functional Training

DB Schenker APAC

📅 11/2018 - 11/2018 📍 Changi, Singapore

### NextGen WMS Technical Training

DB Schenker APAC

📅 06/2019 - 06/2019 📍 Bangkok, Thailand

## KEY ACCOMPLISHMENTS

### Development of Warehouse Digital Twin

📅 06/2021 - 12/2023 📍 DB Schenker, Yennora

- With inspiration from other industries which utilise Digital Twin Technologies, built and deployed a Warehouse Digital Twin tool.
- Develop pure-Python application, with complete documentation and seamless API integration.
- Utilise graph-based machine learning algorithms to deliver distance-based optimisation and real-time re-slotting capabilities.

### Workforce Capacity Planning

📅 07/2020 - 11/2020 📍 DB Schenker, Hoxton Park

- Utilise historic data to formulate time-series forecasting models to predict future volume quantity.
- Implement real-time data set and high-quality dashboard.
- Impart data-driven analytical advice for the Operations team to improve their daily performance results.

### Exploring Undernourishment

📅 03/2020 - 06/2020 📍 UTS, Sydney

- Explore the open-source Global data from the Food and Agricultural Organisation of the United Nations.
- Implement tree-based predictive model for predicting the Prevalence of Undernourishment.
- Wrote an open-source App and published an 8-part Blog piece.

### High-Profile New Product Release

📅 07/2018 - 09/2018 📍 DB Schenker, Eastern Creek

- Working with a team of 10 Operations Managers on a high-profile new product release, occurring in September 2018.
- I developed and deployed eight live and dynamic reporting dashboards, for use with daily operational performance.
- Designed and integrated the operational material-flow and process-flow documentation, for maximum efficiency and performance.

### Reduction of Outstanding POD's

📅 2018 - 03/2018 📍 TNT, Erskine Park

- Reduction of Outstanding Proof of Delivery (POD) consignments from 1.4% (aprox. 800 cons. per week) to a stable 0.3% (aprox. 150 cons. per week).
- Project manager for a cross-functional team of 10 people, utilising Lean Six Sigma technologies and methodologies.
- Achieved a sustainable result whilst managing competing priorities and various operational challenges (eg. politics, resources, and procedure documentation).

### TGX Sales Operations Planning Rollout

📅 11/2016 - 11/2017 📍 Toll Global Express

- Establish in-depot forecasting, using historic data and customer intelligence.
- Facilitate Operations flexibility to gear up or down the labour requirements.
- Deliver flexible database back-end, and interactive dashboard tools.

### IPEC KPI Development

📅 2017 - 10/2017 📍 Toll IPEC, Operations

- Development of a suite of 88 Key Performance Indicators (KPI's) for use by IPEC Handling, Linehaul and PUD teams; for use by Managers from Frontline Supervisors to Executive Level Managers.
- Directly responsible for the development and dissemination of templates and dashboards to be used by the relevant staff to compile, analyse and report on the particular KPI's.

### Bungarribee Operational Turnaround

📅 08/2016 - 12/2016 📍 Toll IPEC, Bungarribee

- As part of the Bungarribee Operations team, directly contributed to a reduction in Operational costs of \$3.2Mil.
- Focusing on three primary areas: 1. Conversion of labour from casual to permanent; 2. 80% reduction in Overtime 2.0; and 3. Purchasing of fleet vehicles to replace rentals.
- The end result yielded upwards of \$7.2Mil in annualised savings (\$4Mil above original estimates), due to a further reduction in Overtime 1.5.

## ACCOLADES



**Western Sydney University Citizens Scholar Award (2018)**



**Deans Medal (2016)**  
Graduating in the top 2% of my cohort.



**Deans Merit List (2013, 2014, 2015, and 2017)**  
Finishing in the top 15% per academic year.



**Academic Engagement Award**  
At the Western Sydney University Academy Excellence Awards in 2017



**Golden Key International Honor Society (2012, 2017)**  
For outstanding academic performance.



**Lean Six Sigma**  
Green Belt: 2017  
Yellow Belt: 2016



**Paul Harris Fellow**  
Awarded: 2018  
1st Sapphire: 2020



**Duke of Edinburgh's Award**  
Gold (2009), Silver (2007), Bronze (2006)