

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 03/2020 - 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.
- Utilisation of t-SQL to develop data model to forecast received volume per customer, per freight-profile, per day; achieving an accuracy of within 2.5%.
- Deployment of 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). 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

Facilitator: Summer 2016, 2019 to 2022

Participant: Summer 2015

Rotary Youth Program of Enrichment

Facilitator: Summer 2015 to 2019

Mentor: Winter 2015 to 2019

International Leadership Programme

Participant: Winter 2017

Model United Nations Assembly

Adjudicator & Coach: 2017 to 2019

Rotary International

Rotarian: March 2015 to Current

REFERENCES

Dr Marius Brand

Head of Innovation & Digitisation, DB Schenker APAC

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

Phil Prior

Senior Operations Turnaround Lead at Toll IPEC

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

The Power of Code Snippets

CodeX

📅 08/2021 🔗 www.chrismahoney.com.au/b/code-snippets

Mental Models and Social Situations

Better Humans

📅 07/2021 🔗 www.chrismahoney.com.au/b/mental-models

Reinforcement Learning

Towards Data Science

📅 06/2021 🔗 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

Exploring Undernourishment

Start It Up

📅 10/2020 🔗 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

Reinforcement Learning in the Warehousing Industry

Artificial Intelligence in Plain English

📅 07/2020 🔗 www.chrismahoney.com.au/b/reinforcement-learning-warehousing

Plotting NPS Data

Analytics Vidhya

📅 02/2020 🔗 www.chrismahoney.com.au/b/plotting-nps

The Contemporary Logistics Industry

Medium

📅 04/2019 🔗 www.chrismahoney.com.au/b/contemporary-logistics-industry

Western Introduces Academy Excellence Awards

Western Sydney University

📅 11/2017 🔗 http://bit.ly/CM_AcadAward

SKILLS

Analytical Platforms

Excel PowerBI SSRS MiniTab

PowerPivot 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

Workforce Capacity Planning

📅 07/2020 - 11/2020 📍 DB Schenker, Fairfield

- 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 (including politics, resources, and procedure documentation).

TGX S&OP Rollout

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

- Establishment of a forecasting method for customer volumes. This uses historic data combined with customer intelligence.
- The forecasts enable the operations staff to gear-up or gear-down their labour force accordingly, in response to anticipated volume.
- Integrated utilisation of t-SQL database development, combined with Excel VBA report distribution, and Power BI dashboard visualisation.

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)