

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 6 different projects in both Scrum & Kanban style, 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.
- **Achieved Success:** Implementing large-scale, robust, secure data lake which utilises big-data, clustered-computing, and real-time analytics.

Academic & Support Lecturer

University of Technology Sydney 📅 02/2020 - Ongoing 📍 Sydney, NSW

- **Mentor & Coach:** Data Science iLabs & Internships
- **Casual Academic:** Support 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 & 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 Team for System development and Customer Migration.
- **Iteration Manager:** Daily Agile Meetings & Kanban Project management.

IT BA : NextGen WMS and Business Innovation

DB Schenker 📅 06/2018 - 10/2019 📍 Hoxton Park, NSW

- **Business Analyst:** New customer onboarding and existing customer migrations to NextGen WMS (based on Infor WMS).
- **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:** Model forecasted volumes, with accuracy of within 2.5%.
- **Data Visualiser:** Dynamic analytics dashboards and interactive reports.

ABOUT ME

I am an astute and engaged individual, with over 10 years experience in the Logistics industry, and stellar results across multiple Higher Education degrees. 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](#). I'm keenly interested in Data Science, Innovation, Continuous Improvement, Lean Six Sigma, and Big Data Analytics; especially how they can add value to an organisation. I'm also competent in multiple programming languages ([Python](#), [R](#), [SQL](#), [M](#)), and many analytical platforms ([StreamLit](#), [Shiny](#), [SSRS](#), [PowerBI](#), [MiniTab](#), [RStudio](#), [Azure](#), [Jupyter](#), [DataBricks](#)). I am very pragmatic, always asking questions like 'How can we improve business outcomes?'. I strike a perfect balance between business acumen and technical expertise.

APPLIED LEADERSHIP

Rotary Youth Leadership Awards (RYLA)

Facilitator: Summer 2016 to Current

Participant: Summer 2015

Rotary Youth Program of Enrichment

Facilitator: Summer 2015 to 2019

Mentor: Winter 2015 to Current

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
6.2 / 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

Rotary Youth Leadership Awards: A Reflectively Experiential Approach to Leadership Development

Medium

📅 01/2023 🔗 www.chrismahoney.com.au/b/ryla

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

Better Programming

📅 04/2022 🔗 www.chrismahoney.com.au/b/github-webhooks

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

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

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

Humanitarian Affairs

📅 07/2014 - 08/2014 📍 Phnom, Cambodia

Human Resources Internship

Habitat for Humanity

📅 12/2013 - 02/2014 📍 Saigon, Vietnam

NextGen WMS Functional & Technical Training Rollout

DB Schenker APAC

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

KEY ACCOMPLISHMENTS

Onboarding of Critical Business Applications to Azure Big-Data Ecosystem

📅 10/2021 - 12/2022 📍 DB Schenker, Australia

- The solution is built in Azure ecosystem, with Data Factory, DataBricks, Azure-ML, Synapse, Spark and scalable Blob-storage.
- I designed, architected, planned, managed, implemented, and delivered the entire project end-to-end.
- Some Technical & Business support provided from consultants and developers within DB Schenker.

Development of Warehouse Digital Twin

📅 06/2021 - 06/2022 📍 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 - Ongoing 📍 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

🔗 <https://www.chrismahoney.com.au/b/exploring-undernourishment/>

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

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

- Developed a suite of 88 Key Performance Indicators (KPI's) for use by IPEC Operations teams, Managers, Frontline Supervisors, & C-Suite Executives.
- Directly responsible for the development, documentation and implementation of dashboards to the KPI's to key stakeholders.

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)

FIND ME ONLINE

🌐 **Website**
www.chrismahoney.com.au

M **Medium**
www.medium.com/@chrimaho

in **LinkedIn**
www.linkedin.com/in/chrimaho

🔗 **GitHub**
www.github.com/chrimaho

👉 **Stack Overflow**
www.stackoverflow.com/users/12036005

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chrismahoney@hotmail.com

QUOTES

"Think deeply, be bold, and help others."
Speaking at the [Grace Hopper Conference](#) and on [Data Framed Podcast](#)

– Debbie Berebichez