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.

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 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 **6.24** / 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

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 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 - 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

- Explore the open-source Global data from the Food and Agrigultural 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)