Michael Le

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SUMMARY

- Master of Data Science (Big Data & Cloud Computing) and Bachelor of Science (Statistics & Stochastic Processing) graduate from the University of Melbourne and La Trobe with ~2 years of experience, including with the SA Government.
- Trained by top Developers from Google and Uber at Google Developer, DS3 Data Science & Australian Computer Societies.
- Completed virtual Data Analyst and Data Scientist internships with Quantium and PWC, and 10+ data analytics projects.
- Skilled in data analysis, visualisation, and manipulation using SQL, Excel, Python, R, Java, Tableau, and C.

PROFESSIONAL EXPERIENCE

Jim's Conveyancing, Administrative Assistant (Contract)   Aug 23 - Oct 23
A conveyancing organisation with an estimated $500K+ in annual revenue and 10+ employees.
- <u>Project Management:</u> Liaised with clients and manager to settle 15 property transactions (~$100k), ensuring compliance.

Sidekicker, Data, Warehouse Operations, Customer Service, Barista & Construction (Contract)   Jul 22 - Mar 23
Completed 20+ placements with Australia's biggest companies, including the SA government, and Fuji-Xerox.
- <u>Data Collection & Validation:</u> Gathered data (physical forms) for the SA Government and Victorian Election Commission, entering it into databases, and validating it for accuracy and completeness; cross-referenced and corrected discrepancies.
- <u>Data Management & Quality Assurance:</u> Implemented various measures and conducted regular audits to ensure the security and integrity of data, protecting sensitive information, maintaining backups, and adhering to data privacy laws.
- <u>Project Management:</u> Sped up warehouse production by ~2 weeks by reducing shipping errors for all products.
- <u>Leadership:</u> Mentored 5 new staff, training them on end-to-end warehouse operations within 2 weeks.
- <u>Innovation:</u> Optimised customer queuing process, speeding up queue processing time by ~17% at peak times.
- <u>Customer Service:</u> Served 30+ customers/hour and used upselling strategies to generate up to $9k/day in a team.

EDUCATION

La Trobe University, Master of Data Science - Big Data & Cloud Computing   Feb 23 - Present
- <u>Skills:</u> Programming (Python, R, ApacheSpark), Data Science Maths, Databases (SQL, PostgreSQL), Deep Learning, Machine Learning, Data Exploration & Analysis, Probability & Statistics for Data Science, Big Data Management (Cloud), Cryptography & Compression, Project Management, Spatial Analysis, Meta-Analysis, Cloud-Based Web Application.

University of Melbourne, Bachelor of Science - Statistics & Stochastic Processing   Feb 18 - Dec 22
- <u>Skills:</u> Video Games: Remaking Reality, Engineering Systems Design 1, Under Camera Animation, Probability, Statistics, Real Analysis, Techniques in Operations Research, Linear Statistical Models, Stochastic Modelling.

SOCIETIES

Google Developer Student Society, Programmer & Member   Mar 24 - Present
- <u>Flutter Programming:</u> With training from Developers at Google and Uber, I developed an Apple/Android enabled video game.

DS3 Data Science Student Society, Programmer & Member   Feb 24 - Present
- <u>Python:</u> With training from Lead Programmer, wrote Python scripts to automate data processing; boosted efficiency ~70%.
- <u>Communication:</u> Built relationships with experts from Bunzel APAC, SHAVIK.AI, Supernormal-labs, and Propps.com.

Australian Computer Society, Programmer & Member   Feb 23 - Dec 23
- <u>Python:</u> Trained by Google Software Engineer becoming proficient in Python-Django development: debugging, database management, integrating third-party APIs/services, deploying and maintaining web applications.

VIRTUAL DATA INTERNSHIPS

Quantium, Data Analyst (Virtual Experience Program)   Mar 24 - Present
- <u>Data Analyst:</u> Create visualisations using R/Python. Provide actionable recommendations based on sales differences.

PWC Switzerland, Data Scientist - Digital Intelligence (Virtual Experience Program)   Mar 24 - Present
- <u>Data Scientist:</u> Develop Python classification models to forecast financial metrics, strategize, & create client proposals.

DATA & PROGRAMMING PROJECTS

AFL Player Performance Analysis - Kaggle, Data Analyst   Mar 24 - Present
- <u>Python:</u> Analysed AFL dataset using Python to understand pattern trends in Player Performance 1897-2022.

Super Mario 64 Clone - Academy of Interactive Entertainment, Programmer   Feb 19 - Present
- <u>C# Programming:</u> Developed Super Mario 64 Stage Clone using Unity Engine, incorporating character assets.

Forecasting and Evaluating Property Values in Melbourne - Kaggle, Data Scientist   Mar 24 - Apr 24
- <u>Machine Learning:</u> Used Machine Learning algorithms to help investors decide when purchasing properties.
- <u>Data Visualization & Exploration:</u> Analysed property prices in Melbourne by mapping them based on geo coordinates.

What and Where are the World's Oldest Businesses - DataCamp, Data Analyst   Mar 24 - Apr 24
- <u>Data Manipulation:</u> Performed SQL queries using the data from Business Financing for 163 businesses.

Exploring NYC Public School Test Result Scores- DataCamp, Data Analyst   Mar 24 - Apr 24
- <u>Data Manipulation:</u> Use data manipulation and summary statistics in Python applying packages such as numpy and pandas to analyse test scores across New York City's public schools.

Motorcycle Part Sales - DataCamp, Data Analyst   Mar 24 - Mar 24
- <u>Data Analysis:</u> Develop queries to know how much net revenue is generated across product lines, by date and warehouse.

Analysing Student Mental Health (SQL) - DataCamp, Data Analyst   Mar 24 - Mar 24
- <u>Databases:</u> Using data manipulation skills in SQL skills to explore the study on mental health of university students.

Investigating Netflix Movies (Python) - DataCamp, Data Analyst   Mar 24 - Mar 24
- <u>Data Visualization:</u> Applied Python programming skills to discover if Netflix's movies are getting shorter over time.

Real-Time Insights From Twitter/X - DataCamp, Data Analyst   Mar 24 - Mar 24
- <u>Data Visualization:</u> Utilising pre-downloaded datasets to examine Twitter/X data, for detailed analysis of a trending topic.

When Was The Golden Age of Video Games - DataCamp, Data Analyst   Mar 24 - Mar 24
- <u>Data Manipulation:</u> Analysed top 400 video games <1977 for sales, peak satisfaction using data aggregation techniques.

Predicting Life Expectancy From The WHO Dataset - La Trobe University, Data Scientist   Jun 23 - Oct 23
- <u>Mathematics:</u> Predict life expectancy using WHO database using advanced mathematics and programming.

Image Segmentation using Unsupervised Learning - La Trobe University, Data Scientist   Jun 23 - Oct 23
- <u>Machine Learning (CNN):</u> Enhanced model efficiency in image segmentation of unsupervised learning.

Image Segmentation using Computer Vision - La Trobe University, Data Scientist   Jun 23 - Oct 23
- <u>Computer Vision:</u> Developed a model to classify labelled and unlabelled groups of handwritten numeric digital images.

EER Diagram & Holiday Reservation Database System (PL/SQL)- La Trobe University, SQL Developer   Jun 23 - Oct 23
- <u>Database Design:</u> Designed an enhanced entity-relationship (EER) model capturing Getaway Holidays' reservation system.
- <u>SQL:</u> Developed stored procedures to target suitable clients and implemented triggers to maintain database integrity.

Data Analysis & Exploration (Students & Movies) - La Trobe University, Data Analyst   Jun 23 - Oct 23
- <u>Data Visualisation:</u> Used R for data visualisation, cleaning, and exploration of the Student Marks dataset.

Monkey Island Clone - Academy of Interactive Entertainment, Programmer   Mar 19 - May 19
- <u>Game Development:</u> Collaborated on a Monkey Island-inspired game using the Unity Engine.

TECHNICAL SKILLS

Python, R, Java, SQL, PostgreSQL, C, Mathematics, Statistics, RStudio, Apache-Spark, Tableau, Excel, Word.

INTERESTS

AFL, data analysis, YouTube content creation, gaming (PS5, Nintendo), video game development, hiking.

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May 15, 2024

To: Peter Green
High Performance Manager
Sandringham Dragons Football Club
Factory 1, 2-6 Wanrua St
Cheltenham VIC 3192

Dear Peter Green:

Re: **Sport Data Analyst Internship at Foundry Athletic/Sandringham Dragons Football Club**

I am writing to express my keen interest in the Sport Data Analyst internship opportunity at Foundry Athletic/Sandringham Dragons Football Club. With a Master of Data Science (Big Data & Cloud Computing) from La Trobe University and a Bachelor of Science in Statistics & Stochastic Processing from the University of Melbourne, I am excited about the prospect of contributing my skills and experience to your esteemed organization.

My academic and professional journey has equipped me with a robust skill set in data analysis, visualization, and manipulation, with proficiency in Python, R, and SQL. During my virtual internships at Quantium and PwC Switzerland, I honed my abilities in statistical analysis, modeling, and data visualization. I am particularly drawn to Sandringham Dragons because of your commitment to leveraging data-driven insights to enhance team performance and player development. This aligns perfectly with my passion for applying statistical analysis and machine learning to sports performance analytics.

In my previous projects, such as forecasting property values and analyzing AFL player performance, I demonstrated my ability to derive actionable insights from complex datasets. For instance, I applied machine learning algorithms to develop predictive models that significantly improved decision-making processes. My experience in developing web-based tools for interactive data visualization, such as the Super Mario 64 Stage Clone and a cross-platform video game, showcases my ability to create user-friendly applications that can be utilized by the coaching and management teams to strategize effectively.

I am highly motivated to bring my problem-solving skills and strong communication abilities to the Sandringham Dragons. My goal is to translate data insights into actionable strategies that enhance team performance and drive game outcomes. I am particularly impressed by your innovative approach to integrating technology and analytics in sports, and I am eager to contribute to this forward-thinking environment.

I am confident that my background and skills align well with the requirements of this internship. I would welcome the opportunity for an interview to discuss how my experience and enthusiasm can benefit Sandringham Dragons Football Club. Enclosed is my resume for your review, and I can be reached via phone or email at your convenience. Thank you for considering my application.

Yours sincerely,

Michael Le