

# RAYMOND HALIM

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## CAREER PROFILE

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- Driven and solution-oriented Master's student in Data Science at University of Technology Sydney, with a strong foundation in data-driven decision-making and machine learning, including LLM, NLP, and deep learning, from deploying GPT-powered sentiment analysis platforms to building statistical and neural models.
- Former Operational Intelligence Intern at SafeWork NSW, conducted quantitative analytical research on regulatory effectiveness and recidivism, producing insights-driven research reports to support decision-making.
- Proactive problem solver who identified and resolved manual workflow inefficiencies through automation, optimising data accessibility and streamlining internal processes.
- AWS Certified (3 certifications) and experienced in utilising AWS services as a Junior IT Support & Data Analyst for data collection, analysis, and storage, increasing operational efficiency by more than 60%.
- Strong communicator and team player, seeking for data science roles to apply my analytical and problem-solving skills, while learning from professionals to expand my expertise.

## EDUCATION

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**Master of Data Science and Innovation** *Feb 2025 – Dec 2026 (expected)*  
*University of Technology Sydney, Australia*

- UTS Academic Excellence International Scholarship

**Bachelor of Computer Science (Big Data)** *Oct 2021 – Sept 2023*  
*University of Wollongong, Australia – Singapore Institute of Management, Singapore*

- Awarded with Distinction
- Weighted Average Mark (WAM): 78.5

**Diploma in Information Technology** *Oct 2020 – Sept 2021*  
*Singapore Institute of Management, Singapore*

- GPA: 3.813 / 4

## EMPLOYMENT

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**Operational Intelligence Intern** *Mar 2025 – June 2025*  
*SafeWork NSW, Sydney, Australia*

- Cleansed and structured more than 800,000 enforcement records including the use of text similarity techniques, creating an analysis-ready dataset
- Conducted statistical and quantitative analysis to identify trends in regulatory effectiveness and recidivism
- Developed interactive visualisation and dashboards for in-depth data exploration and stakeholder engagement
- Delivered a comprehensive insights-driven report to support strategic decision-making
- Tech Stack: Python, Jupyter Notebook, Power BI

**Junior IT Support & Data Analyst** *July 2019 – Jan 2025*  
*PT Berkas Jaya Pangestu, Indonesia*

- Developed an automated cloud-based invoice processing solution, incorporating data cleaning, extraction, and storage, enhancing operational efficiency by more than 60% and ensuring data availability.
- Analysed financial data to identify cost-saving opportunities and support data-driven expenditure decisions
- Managed IT infrastructure, providing technical support and troubleshooting for hardware and software issues
- Managed stakeholder communication and efficiently coordinated transactions with suppliers (Tech Stack: AWS S3, Lambda, Glue Databrew, Athena, Python, Excel)

### Achievements:

- Spearheaded transition from manual to automated workflows, aligning technology with business objectives

## SKILLS

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- **Programming Languages:** Python, R, Java, C++, C#, Go, JavaScript, ReactJS
- **Machine Learning Frameworks:** PyTorch, TensorFlow, Scikit-Learn, Keras, GPT-3
- **Data Visualisation & Analytics:** Matplotlib, Seaborn, Power BI
- **Big Data ETL:** PySpark, Hadoop, AWS Glue
- **Database Management Systems:** SQL, MongoDB, Oracle
- **Languages:** English (IELTS-7.5), Bahasa Indonesia (Native), and Chinese (Limited Working)

## PROJECTS

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### Telemarketing Campaign Conversion Analysis and Prediction *Feb 2025 – June 2025*

- Explored model interpretability for marketing analytics, isolating ethical feature contributors to avoid demographic bias
- Built and tuned Logistic Regression and feed-forward Neural Network, then interpreted results via logistic coefficients, permutation importance, and partial dependence plots
- Summarised findings in a detailed report that translated models' insights into targeted marketing recommendations

### Predictive Analytics for Student Depression *Feb 2025 – June 2025*

- Investigated mental-health risk prediction, ensuring minority subgroups were not under-served
- Benchmarked Logistic Regression, Random Forest, and Naïve Bayes classifiers, using Grid Search, Bayes Optimisation to enhance generalisation
- Consolidated findings into a concise report that highlighted risks to under-served subgroups and offered data-driven recommendations for early intervention.

### Stroke Risk Prediction *Feb 2025 – May 2025*

- Performed Exploratory Data Analysis (EDA) and applied clustering techniques to identify patterns
- Trained and evaluated machine learning models include Logistic Regression, K-Nearest Neighbours, and Neural Networks to assess risk prediction accuracy
- Integrated key findings into a detailed report suggesting strategies for earlier stroke detection

### DeepPurple *Apr 2023 – Sept 2023*

- Designed and developed web application and integrated GPT-3 along with Google Speech-to-Text API for advanced natural language processing
- Analysed audio recordings and provided insights to enhance customer experience and agent performance
- Tech Stack: Spring Boot, React.js, Tailwind CSS, GPT-3 API, Google Speech-to-Text API, AWS RDS, S3, Elastic Beanstalk, Amplify

## EXTRACURRICULAR ACTIVITIES

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### Member *Feb 2025 – Present*

*UTS BUILD (Beyond UTS International Leadership Development)*

- Participating in programs to foster global leadership and collaborate across diverse cultural backgrounds

### Postgraduate Peer Leader *Feb 2025 – Present*

University of Technology Sydney

- Guide learning group activities to help peers deepen their understanding through collaborative discussions
- Strengthen leadership and teamwork skills through consistent collaboration and active engagement with peers

### Student Ambassador *Sept 2022 – Sept 2023*

*Singapore Institute of Management (SIM)*

- Led and facilitated groups of 10 individuals, maintaining discipline and fostering an organised environment
- Strengthened proficiency in public speaking, engaging groups of crowds with diverse backgrounds

## **CERTIFICATIONS**

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- AWS Certified Data Engineer - Associate *Oct 2024*
- AWS Certified Developer - Associate *Aug 2024*
- AWS Certified Cloud Practitioner *Aug 2024*

## **REFEREES**

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Available upon request