

Thomas Napier

PhD Candidate | Graduate Research Worker | Sessional Lecturer

[phone number] | [\[email address\]@gmail.com](mailto:[email address]@gmail.com) | www.thomasnapier.com | www.github.com/thomasnapier

#Skills

Languages	Python, Java, C#, JavaScript, Dart, HTML5, CSS3, SQL/PostgreSQL, PHP
Frameworks & Libraries	TensorFlow, PyTorch, Flask, Librosa, Google ARCore, WEKA, RESTful APIs, UML
AI / ML Toolkits	Scikit-learn, Timm, OpenCV, XGBoost, MLflow
Data Science & Analysis	Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebooks, SciPy
Tools & Platforms	Git / GitHub, Docker, Unity 3D, Conda, Android Studio, Maya, Adobe Suite
Cloud & Systems	Amazon Web Services, Linux / Unix, System Centre Service Manager (SCSM)
Research Tools	LaTeX, Overleaf, Zotero, EndNote, Excel (advanced), Git version control

#Experience

March 2021 - Present

Research Worker

James Cook University

Contributed as a chief investigator on multidisciplinary, industry-linked research projects across domains including aquaculture, automotive insurance, tourism, and IT education. Provided end-to-end technical leadership in data-driven system design, implementation, and deployment.

Key contributions:

- Designed and deployed deep learning models for image classification, object detection, and instance segmentation, including a production system for automated vehicle damage assessment.
 - Implemented domain-specific data mining algorithms for applications in aquaculture, tourism analytics, and tertiary education.
 - Developed and integrated a RESTful API with a mobile-based tourism data collection platform; designed and optimised a PostgreSQL database for large-scale tourist data storage.
 - Built an augmented reality + machine learning educational tool to support interactive learning of database normalisation.
 - Conducted literature reviews, user testing, and qualitative evaluations; synthesised findings into actionable insights and future research directions.
 - Engaged in regular agile meetings with stakeholders to align technical development with evolving project goals.
-

February 2019 - Present

Sessional Academic (Lecturer & Tutor)

James Cook University

Delivered in-person and online lectures and practical instruction for undergraduate and postgraduate students across a broad range of Information Technology subjects. Responsibilities spanned curriculum delivery, assessment development, and pedagogical enhancement in both foundational and advanced units.

Key contributions:

- Lectured in core subjects including Network Security, Internet Fundamentals, Cloud Computing, Database Modelling, and e-Strategic Management.
- Led practical sessions and marking for subjects including Programming I & II, Web Design and Development, Data Mining, Content Management Systems, Python for Data Analytics, Information Processing and Visualisation, Database Systems, Design Thinking, and Internet Fundamentals.
- Authored and revised assessment instruments, including the redevelopment of Cloud Computing exams to ensure alignment with academic integrity standards.
- Overhauled the practical curriculum for the third-year Data Mining subject, replacing WEKA-based workflows with a Python-based pipeline to improve industry relevance and student outcomes.
- Identified and addressed conceptual gaps during tutorials, enhancing student understanding through adaptive explanations and applied examples.

February 2018 – August 2021

IS&T Service Desk Analyst

Glencore Australia

Provided first-line technical support for over 13,000 users across Glencore Copper & Zinc Operations in Queensland. This role involved a high-volume service environment requiring expertise across enterprise systems, infrastructure management, and end-user support.

Key achievements and responsibilities:

- Delivered over 3,500+ direct support calls, implementing best practice incident management using System Centre Service Manager (SCSM).
- Administered Active Directory, Microsoft Exchange, and RSA/VPN access systems, with hands-on involvement in VMware Horizon, FortiClient, and PhenixID environments.
- Provided Level 1/2 support for a wide range of platforms including Windows 7/10, Microsoft Office 2013/2016, SharePoint, PowerShell, and CISCO tools.
- Supported enterprise platforms such as OSIsoft Pi System, Gallagher, Hyperion, and Ellipse, and managed connectivity tools like Remote Desktop Viewer, Bomgar, and mobile device platforms.
- Ensured timely resolution of service requests through continuous monitoring, escalation, and coordination with technical teams.
- Maintained internal documentation and contributed to issue elimination strategies, while consistently upholding high standards of customer service and communication.

#Education

2022-2025

Doctor of Philosophy (Information Technology)

James Cook University

Research Area: Species Classification using Deep Learning-Based Signal Processing Techniques in Natural Soundscapes

2020-2021

Bachelor of Information Technology (Honours)

James Cook University

Grade: First Class (1A), 7.00/7.00 GPA, University Medal

Research Area: Using Mobile-Based Augmented Reality and Object Detection for Real-Time Abalone Growth Monitoring

2017-2020

Bachelor of Information Technology

James Cook University

Grade: 6.78/7.00 GPA, Graduated with Distinction. Minor in Human Computer Interactions and Games Design.

#References [available on request]