

Cody Lewis

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EDUCATION

2020 to Present

PhD(Computer Science) University of Newcastle
Research Training Program Scholarship 2020 to 2023

2017 to 2019

Bachelor of Computer Science (Data Science) University of Newcastle
GPA 6.2/7
FEBE Summer Research Scholarship 2018 to 2019

EXPERIENCE

Jul 2019 to Present

Casual Academic - Demonstrator and Marker University of Newcastle

- Have been one of the demonstrators and markers for the System and Network Security (SENG2250), Object Oriented Programming (SENG1110), and Advanced Database (COMP3350) courses
- Applied my knowledge of the respective topics along with communication skills to teach them
- Worked as a team ranging from one other demonstrator to several to organize timely marking of assignments. In case of SENG1110, we had teams of two demonstrators for teaching
- During the pandemic of 2020, all aspects of this work was migrated online via the zoom and blackboard infrastructures for a few months, then simultaneously online and offline afterwards.

Dec 2018 to Feb 2020

FEBE Summer Research Scholarship and Work Integrated Learning University of Newcastle

- Worked on a research project, involving creating three simulations of Internet of Things networks in R, then implementing a trust model within each network respectively, those used reinforcement learning in order to find the conditions of nodes within the network. We next used the simulation to show that a new type of cyber attack may be performed on trust models. We also mathematically shown the effects of that said attack on three other highly cited published trust models. We concluded by proposing a framework to mitigate the attacks, and demonstrated its effectiveness on a vulnerable simulation
- This resulted in writing a conference paper on the findings within this project, currently submitted and awaiting acceptance

Mar 2019 to Jul 2019

Casual Academic - Course Content Development University of Newcastle

- Helped with writing course content for the online System and Network Security (SENG6250), and the Data Security (COMP6360) masters courses
- For System and Network Security, it involved reading the lecture slides and expanding upon them using a combination of literature and my own knowledge in order to complete their explanations for an online format
- For Data Security, it involved taking videos, word documents and PowerPoint presentations containing data security content, particularly equations, and translating/transcribing those into LaTeX, such that content may be used on the MathJAX based online platform

SKILLS

Tools: Linux, Git, Android studio, make, cmake

Languages: Python, R, Java, L^AT_EX, Shell, C, C++, JavaScript, Fortran

Certification: First Aid

INTERESTS

- A number of STEM related projects on git.codymlewis.com some of which have blog like pages detailing them on codymlewis.com/plogs.html