

SUMMARY

An organised individual, who is detail orientated and has experience in the Australian industries.

Current PhD candidate of Information Systems.

Seeking opportunities to provide knowledge and skills in Data Science / Computer Science.

SKILLS

- Conceptual model, Data model, Wireframes
- Minimal Viable Product (Flask, HTML, Bootstrap)
- Object Oriented Programming (VB.NET & C#)
- Database design and administration (MySQL & Microsoft SQL)
- Project Management (Agile)
- Data Manipulation (R & Python)
- Data Visualisation (R & Python)
- Import & Cleaning data (R & Python)
- Machine Learning (R & Python)
- Version Control (Github)

EDUCATION

Queensland University of Technology - Brisbane, Queensland, Australia

Ph.D.: Information Systems

Queensland University Of Technology - Brisbane, Queensland, Australia

2018

Master of Science: Data Science

- 6.75 GPA

EXPERIENCE

Sessional Tutor - Web Application / Queensland University of Technology - Brisbane City, QLD 07/2021 - Current

Delivering tutorials and helping students in finding useful study methods to enhance academic performance.

Learning outcome of the Unit:

- Demonstrate approaches for producing Web application design in support of requirements, at a sufficient level of detail for use in the software development process.
- Specify and validate Web forms and databases, using platform tools, which will be used when developing the program code of Web applications.
- Develop, test and deploy program code of Web applications using both a programming language and platform tools.
- Create APIs and use APIs of existing applications to develop and test program code for Web application integration.
- Apply written communication skills to reflect upon personal performance, and the performance of others.
- Employ teamwork skills and processes to participate collaboratively and operate within a schedule to produce deliverables.

Application Support Specialist / Sonic Healthcare - Brisbane, Queensland

03/2020 - 03/2021

- Maintain solutions and resources and ensure sufficient reliable maintenance and monitoring to ensure that all systems are available and operational on a 24 x 7 basis.
- Client liaison in respect to product development, maintenance and support; translate Client needs into solutions.
- Build and continuously improve the client relationships.
- Troubleshoot applications issues so problems root cause can be detected and resolved before they have a major impact to business process.

- Perform application upgrades and patches to production environments including business as usual supplementary database updates.
- Perform quality assurance testing of new software releases
- Provide regular detailed reports to the Application Services Manager regarding known issues with applications

Software Engineer / Products for Industry PtyLtd (PFI) - Darra, QLD

11/2018 - 01/2020

- Introduced automation tools, including internal software to reduce redundancy and enhance workflow.
- Worked with engineering team to 3rd-Party API to create add-ins in Inventor and Autodesk Vault.
- Identified issues in ERP system and implemented optimisation techniques, which resulted in increasing in productivity.
- Design and implement relational database to store industrial data.

Data Analyst / FitazFK Health - Kangaroo Point, QLD

01/2018 - 10/2018

- Front end implementation (Based on Shopify and Squarespace, using HTML and Javascript to improve the customized website design details)
- Data analytics (Google Analytics, Shopify data - using R and Python to build visualizations and analyze customer profiles)
- Optimise shipping routine (Genetic algorithm to determine the warehouse location)

PROJECTS

Deep Learning Chest Xray Analysis via QUT (Python)

- Mask-RCNN Implementation
- Evaluation between explanation algorithms and ground truth

Information Retrieval and Storage via QUT (C#)

- Search Engine Implementation
- Optimisation of the SE by Text processing, Query processing and Evaluation
- Web Information Retrieval, page rank and link analysis

Recommendation System Project via QUT (MySQL & Python)

- Downloaded hotel rating data from Yelp (using python to get Yelp API and MySQL)
- Cleaned and stored data in the configured relational database for further analysis
- Built recommendation system (Collaborative Filtering - user and item based)
- Applied item embedding methodology (using TensorFlow to create item embedding to improve accuracy)
- Algorithms testing and tuning and successfully evaluated the algorithm performance

PORTFOLIOS

Object Oriented Programming via QUT (C#)

Real case simulation & Algorithm efficiency Analysis

- Creating classes and creating object
- Prediction of the finally budget of building docks and the ROI
- Implementing the median series finding algorithm from scratch
- Understand efficiency cost of algorithms

Data Analysis portfolio via Kaggle (R)

New York Uber pick up data analysis & Titanic data exploration

- Data importing, cleaning and pre-processing
- Data exploration and spatial visualisation (pickup time and location)
- Data modeling and Prediction on survival rate

Natural Language Processing Project via QUT and Risk Insight (Python & KNIME)

- Implemented spelling correction algorithm (SymSpell algorithm)
- Successfully evaluated and modified the algorithm

- Implemented KNIME Node (functional python script node)

Machine Learning via QUT (R & Python)

- Supervised, unsupervised and semi-supervised learning
- Data transformation and normalisation (Logarithmic and one-hot encoding)
- Clustering and Classification modeling (Decision tree, Neural Network, Regression, K nearest neighbour)
- Dimensional reduction and feature selection (Recursive feature elimination)
- Grid hyper parameter searching and optimisation
- Evaluation (Precision, recall and f1-score)

Data Mining via QUT (Python)

- Text mining (Social media and web mining)
- Pre-processing (Lowercase, punctuation, lematization, stemming, TF-IDF)
- Association mining (Confidence, support and lift)

Artificial Intelligence Related Portfolios via QUT (Python)

- Differential Evolution and Genetic Algorithm
- Neural Network (CNN, RNN, DNN)
- Siamese Network - CNN, DNN
- Reinforcement Learning
- Dynamic programming

AWARDS

- 2017 Dean's List Award - Semester 1 - Science and Engineering
- 2017 Dean's List Award - Semester 2 - Science and Engineering
- 2018 Dean's List Award - Semester 1 - Science and Engineering
- 2018 Dean's List Award - Semester 2 - Science and Engineering

REFEREES

Available upon request