

# Derrick Lee Kuok Wei

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## EDUCATION

University of Wollongong (UOW)

Apr 2022 – Apr 2024

**Bachelor of Computer Science (Big Data and Digital System Security)**

**Graduate Distinction (Highest Award)**

- Applied Machine Learning libraries in classification projects for versatile model implementation.
- Executed complex data manipulation tasks using MySQL to refine and transform extensive datasets.
- Proficient in team management across diverse software development projects.

## PROJECT

**Web Development Project – Café Management System**

Oct 2023 – Dec 2023

**Scrum Master, Backend**

- Led a web development project to develop café management system and resolve staffing issue.
- Adopted agile methodology to enable incremental product development with important backlog items prioritized.
- Conducted frequent standup meetings to resolve impediments, ensuring successful sprint deliveries.
- Technologies/ Tools: ReactJS, Java, MySQL, Taiga Project Tools

**Data Mining Project – Network Intrusion Detection**

Jul 2023 – Aug 2023

**Project Leader, Machine Learning Engineer, Data Analyst**

- Led a binary classification project to distinguish between normal and attack network traffic using Spark library.
- Executed data mining, algorithm selection (XG Boost, Random Forest, etc.), and model tuning.
- Project achieved over 80% accuracy in classification tasks.
- Technologies/ Tools: Google Collab, Python, ML Library (Pandas, Spark), Data Mining

**Data Mining Project – Credit Risk Analysis**

Jun 2023 - Jul 2023

**Project Leader, Machine Learning Engineer, Data Analyst**

- Led a classification project to predict whether credit default would occur for each user using Scikit-Learn library.
- Implemented data mining work and trained multiple classifiers. (XG Boost, Linear SVM, etc.)
- Project achieved over 85% accuracy in classification tasks.
- Technologies/ Tools: Google Collab, Python, ML Library (Pandas, Scikit-Learn), Data Mining

## WORK EXPERIENCE

**Champ Code Academy**

Jun 2021 – Jul 2023

**Coding Instructor**

- Guided over 50 students in building their python fundamentals through mini game projects.
- Communicated actively to identify student challenges and enhance their problem-solving skills.
- Simplified coding concepts, facilitated student comprehension and learning progression.

**CPM Singapore**

Jan 2021 – Apr 2021

**Project Management Intern**

- Communicated project requirements between company stakeholders and an outsourced developer team.
- Facilitated regular project update meetings and status reports to keep all stakeholders informed and aligned.
- Performed market research on new businesses and organized findings in Excel for strategic analysis.

## AWARD / CERTIFICATION

**IBM Data Science Professional Certificate | Coursera**

Apr 2024

- Covered relational database management using Python and SQL
- Covered data visualization, data analysis, and machine learning with Python libraries (Pandas, Scikit-learn, etc.)
- Completed a capstone project as a course passing criterion to enhance work proficiency with data science tools

## SKILLS

Languages: Proficient in English and Chinese

Soft Skill: Driven Learner, Critical Thinker, Effective Communicator

Hard Skill: Python, Java, SQL, ML Libraries (Matplotlib, Scikit-Learn, TensorFlow etc.), Hadoop, Excel, ETL

## ACTIVITIES

**Fencing Club**

Jun 2022 – Present

**Executive Committee Member**

- Represented university in open category competitions and awarded for dedication to rigorous training regimens.
- Organized bonding events for fencers to foster camaraderie and enhance group dynamics.

**Google AI Hackathon 2024**

Apr 2024 – Apr 2024