TEOH LEN KHAEI EDWIN

Permanent Resident | Sengkang, Singapore | March 1996
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WORK EXPERIENCE

Ernst & Young – Senior / Associate   Sep 2022 – Apr 2025
Assessed and evaluated financial institution's overall IT risk profile, design and operating effectiveness of processes and controls that address relevant technology and cyber security risk, based on industry standards and regulatory requirements such as MAS Technology Risk Management, Cyber Hygiene, TRM Guidelines, BCM Guidelines and other technology related advisories and circulars.
Through the assessment and evaluation performed, highlight deficiencies, areas of improvement and observations to the management of the financial institutions.
Employed data analytic whenever necessary to support the assessment of IT controls operating effectiveness based on regulatory, internal policies and other relevant stipulations.
Created Python and Visual Basic (VBA) scripts, and also MS Excel functions to improve efficiency and effectiveness of audit tasks, such as data consolidation, comparison, and transformation.
Cross collaborated with financial audit teams on performing IT General Control (ITGC), IT Application Controls (ITAC) and regulatory audit

Titanfour Business Solutions – Intern   Jan 2020 – Mar 2020
Received introductory training on JD Edwards EnterpriseOne and provided research into possible ways to use Machine Learning in Image Recognition to create a general image recognition system to integrate with the ERP system.

Citibank Singapore – Programmer and Administrative Assistant   Jul 2016 – Mar 2017
Proposed and improved the performance evaluation system using Visual Basic (VBA) in Microsoft Excel. Assisted in the Audit Confirmation and several administrative tasks.

Kino Biotech – Administrative and Event Assistant   Mar 2014 – Aug 2014
Assisted the main event manager in several events, shadowed the marketing manager in several product launch roadshow and did administrative tasks in both Malaysia and Singapore branches.

PROJECT EXPERIENCE

- Applied Data Analytics on several quantitative datasets to support IT Risk Assessment and Evaluation, using tools such as scripts in Python and Visual Basic and Functions on Microsoft Excel. Also needed to record and document steps taken to ensure ease of understanding when discussing among technical and non-technical individuals during employment in Ernst & Young.
- Collaborated with the financial audit team to execute code reviews, validating logic and ensuring functionality aligned with business requirements. Translated technical processes into accessible documentation to facilitate understanding.
- Replicated a research paper and explored areas to improve the LSTM model for financial market prediction for Master's Project.
- Deployed a local server using Proxmox hypervisor to explore virtualization and self-hosted application and services.
- Implemented Unsupervised Clustering to Identify Forex Trend Patterns to be used for Prediction in University's Final Year Project
- Experimented with different Feature Detectors in combination with YOLO, a general image recognition algorithm, to uniquely identify a subject in surveillance footage in Computer Vision
- Created a Flappy Bird Clone using Scala for Object Oriented Programming
- Applied Visual Basic (VBA) in Microsoft Excel, to create and improve several teams' Evaluation Systems during internship in Citibank
- Experienced in performing Fundamental Analysis and Technical Analysis to compare different financial instruments to invest and trade in simulated and live conditions
- Participated in Entrepreneur Competitions where participants had to go through the process of running a business which include pitching, brainstorming, sourcing, prototyping, funding, market research, product launching and sales.

SKILLS

Technology Risk Management | Data Analysis and Machine Learning using Python libraries such as Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, ScikitLearn, Pyspark | Visual Basic (VBA) to create Macros and Functions in MS Excel | Object-oriented Programming Languages such as Python, Java, Scala and C++ | Microsoft Office (Excel, PowerPoint, Word) | Financial Analysis | Using Proxmox to manage Virtual Machines and Containers | Collaborative | Communication | Problem Solving | Project Management | Adaptability

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PROFESSIONAL QUALIFICATION

Chartered Institution for Securities and Investments
International Introduction to Investment – ID:10531338
Certification in Wealth and Investment Management – ID:10548490

EDUCATION

University of London / Singapore Institution of Management	Oct 2022 – Present
Masters in Data Science and Artificial Intelligence	
Lancaster University / Sunway University	Aug 2017 – Aug 2020
BSc (Hons) in Computer Science – 2nd Class Honours with cGPA 3.6	
Temasek Polytechnic	Jul 2014 – Aug 2017
Diploma with Merit in Financial Business Informatics – Admitted to Director's List with cGPA 3.78	
SMK Kota Kemuning (High School)	Jan 2009 – Dec 2013
8/9 A's in Sijil Pelajaran Malaysia (SPM)	
5/7 A's in Penilaian Menengah Rendah (PMR)	

HONOURS AND AWARDS

2nd Runner-Up, Junior Achievement Company of the Year Asia Pacific Finals (2016) 2-Time-Winner, Junior Achievement | Company of the Year Singapore Finals (2015 and 2016) Singapore Representative, FedEx Express | Junior Achievement International Trade Challenge Asia Pacific (2015) | Admitted to Director's List in Financial Business Informatics 2015 and 2016 | Awarded to study Psychology Cluster during Diploma

CO-CURRICULAR ACTIVITIES

Vice President and long active member of Sunway Photography Club, hosted many events as well as being an event photographer for many events in university | Honorary Treasurer and Secretary of Financial Business Informatics Student Interest Group | Class Representative in Financial Business Informatics for a year Volunteered and participated many events in polytechnic.

ABOUT MYSELF

As an inherently curious professional, this has made me flexible, open and willing to pick up new skills. I am passionate about continuous learning across a wide range of disciplines, including finance, technology, risk management, and business. I derive great joy and satisfaction from successfully solving problems while simultaneously acquiring new knowledge.

INTEREST

Self-hosting, Fitness, Gaming, Photography