

# Bee Hwa, Siew

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## SUMMARY

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A Masters in Computer Science graduate, certified Data Scientist with a diverse project portfolio and experienced IT Project Manager in Banking Payments system over 10 years. A problem solver, highly motivated, resourceful and independent with a flair of task prioritization plus critical time-management skills. Possess excellent communication skills especially in bridging understanding between technical and non-technical stakeholders.

## EDUCATION

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- **University Science of Malaysia** Penang, MY  
*Master of Science in Computer Science* Graduated in 2009
- **University Putra of Malaysia** Selangor, MY  
*Bachelor of Computer Science (Multimedia)* Graduated in 2005

## PROFESSIONAL CERTIFICATION

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- [MITx 18.6501x: Fundamentals of Statistics](#): 2022
- [MITx 6.86x: Machine Learning with Python-From Linear Models to Deep Learning](#): 2022
- [MITx 6.00.1x: Introduction to Computer Science and Programming Using Python](#): 2022
- [MITx 6.431x: Probability - The Science of Uncertainty and Data](#): 2022
- [Data Scientist Professional \(DataCamp\)](#): 2021
- **AI Singapore: AI for Industry (Foundations in AI)**: 2021
- **Project Management Professional (PMP)**: 2019

## DATA SCIENCE PROJECTS PORTFOLIO

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- [Ocean energy efficiency data challenge](#): using Scotland's energy performance data, I generate rankings and top 5 lists, discover correlations between building features and energy performances, build algorithms to predict energy cost and recommend building modifications for energy cost savings.
- [Major incidents analysis in UK year 2020](#): Using Plotly, I identified the most important factors for major incidents and plot incident hotspots using a combination of address retrieval via Geopy and geospatial plotting via Geopandas.
- [Used cars pricing prediction](#): Using Linear Regression modeling, hyperparameter-tuning and R2 scoring, I predicted used cars pricing with a best R2 score of 0.9538 and over 90% predictions that meet the pricing baseline.
- [Bankruptcy Risk Prediction with Taiwan Economic Journal \(TEJ\) Data](#): Using EDA, hypothesis testing and classification modeling, I achieved a best result of only 7 False Negatives in the bankruptcy prediction model.
- [Misogynist classification on Urban Dictionary content](#): Using NLP techniques and classification modeling, I classified misogynistic and non-misogynistic texts on Urban Dictionary data with a best score of 0.87.
- [Singapore Taxi availability prediction](#): Using GeoJSON, Regression modeling and RMSE evaluation on results, I predicted taxi availability across different times and regions, with a 9-15% deviation from actual results.
- [ICU mortality rate classification using APACHE IV data](#): Prediction on ICU patients mortality rate with classification model (DecisionTreeClassifier) with a ROC-AUC scoring of 0.519.
- [Lending Club Loan Data Analysis](#): With the goal to maximize profit while minimize potential losses, I analyzed loan data with EDA and proposed an investment portfolio for moderate risk investors that generates 9-13% returns and repayment improvement from 83.9% to 86.8%.
- [Wine Promotion Analysis for Russia drinks company](#): Using Unsupervised Learning methods with Silhouette Scores metrics, I identified and proposed 10 other Russian regions for a wine promotion campaign using the previous successful promotion in Saint Petersburg as a baseline.

## SKILLS

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- **Programming Languages:** : Python, SQL, AS400 RPGLE, Java, HTML
- **Data Science Skills & Packages:** : Pandas, NumPy, Scikit-Learn, Statistical Analysis, Hypothesis Testing, Data mining, Data Visualization (EDA), Data Analytics, Geospatial visualization (Geopandas, Geopy), Natural Language Processing (NLP), Web scraping, Machine Learning modeling (Linear Regression, Classification, Clustering, Unsupervised Learning).
- **Others:** : Project management, Software Development Lifecycle (SDLC), Change management, Vendor management, Business analysis.

## WORK EXPERIENCE

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- **Sumitomo Mitsui Bank Corporation** Singapore  
*Assistant Vice President, IT Steering Group (ISG)* *July 2016 - Aug 2019*
  - **Contributions:** Lead, manage a team of 10-15 vendors and 20-30 business users in strategic and regulatory regional payments project management: Sydney BPAY, Manila Metrobank Collection, Seoul Swift Auto Repair, Manila TEMS enhancement 2019.
  - **Other responsibilities:** change management and business analysis for system enhancements & production support for regional Payment systems in Manila, Sydney and Seoul.
- **United Overseas Bank** Singapore  
*IT Manager* *Oct 2011 - June 2016*
  - **Contributions:** Bulk payment team (ROS) project lead, coordinator for 2 contractors and 5-10 business users in strategic and regulatory project management: FAST (G3) Project Phase 1 - Phase 2, Regional BIB plus project.
  - **Other responsibilities:** Perform business analysis, system enhancements and production support for bulk payment, cheque, direct debit and remittance processing back-end system.
- **Overseas Chinese Bank Corporation** Kuala Lumpur, MY  
*IT Manager* *July 2009 - Sept 2011*
  - **Contributions:** Project lead and business analyst for IBG and Giro Plus system.
  - **Other responsibilities:** System enhancement and production support for payments system.
- **HSBC** Kuala Lumpur, MY  
*IT Project Officer* *Oct 2006 - June 2008*
  - **Contributions:** Programmer for systems: Interest Bearing Scheme (DIBS), Cheque Truncation system (CTCS), Islamic Subsidiary.
- **Scope International** Kuala Lumpur, MY  
*Programmer* *Oct 2005 - June 2006*
  - **Contributions:** Programmer for Standard Chartered MY e-Statement project.