ERIC GOH MING HUI | 吴明辉

Data Scientist, Lecturer, and Entrepreneur

Singapore | +6588069814 | gohminghui88@gmail.com | gohminghui88@svbook.com | gohminghui88@u.nus.edu

svbook.com ogohminghui88.github.io/

Summary

Over five years of data science, computer science, engineering, training and management experience. Skilled in visualizations and statistical analysis of data, including prediction modeling with machine learning algorithms using SPSS, SAS, R, C# and Java. Projects includes intelligent system development.

HONORS AND AWARDS

- Specialised Information Technology Manager Award from Institute of Management Specialists, <u>UK</u>
- Finalist for TelR Data Mining Challenge and First in <u>ESSEC</u> Business Case Competition, <u>Paris and Singapore</u>
- Inducted as Full Membership for Sigma Xi Scientific Research Honor Society, USA
- Inducted for **Golden Key International Honor Society**, **Upsilon Pi Epsilon Honor Society**, and **Delta Epsilon Tau Honor Society**, <u>USA</u>
- Tan Kah Kee Young Inventors' Merit Award, Singapore

Work History

Founder 2016 - Present

SVBook Pte. Ltd. (ACRA Reg. No.: from 53335101D to 201827302H)

- SVBook offers Affordable Data Science and Programming Books, Courses and Softwares
- Written various data science and programming books at http://www.svbook.com and published at Apress, developed courses based on the books at http://emhacademy.com
- Researched and Developed Data Science softwares DSTK Data Science Toolkit 3 (public version) at http://dstk.tech and other softwares for my students at http://dstk.tech
- Consultancy jobs as Lecturer and Instructor at Universities and Institutions (Kaplan and MDIS)
- Develop new marketing strategies to quickly capitalize on trends and social media
- Conduct market research, analyze data, and derive strategies for company to progress and stay competitive in the market
- Coordinate and manage the process flow of product purchasing, customer feedbacks and product delivery to ensure fast, optimal and better customer experiences.
- Building client relationships that results in revenue and profitability growth.

Adjunct Instructor

2014 - Present

EMHAcademy

Adjunct Faculty - EMHAcademy.com (Part of SVBook Pte. Ltd.)

- Instructor for data science courses at EMHAcademy.com and Udemy, created 1 E-Diploma, 7 Advanced Certificates courses and 28 online courses. First C# course is created in 2014
- Prepare tests, question papers and marking scheme (QPMS) and act as invigilator and markers.
- Develop new marketing strategies to quickly capitalize on trends and social media

Badges



WES Badge

https://www.credly.com/badges/8c0ea 534-e2c9-40da-a59dae6fe8f9d02d/public_url



IBM Data Science Professional Certi...

https://www.credly.com/badges/d8ed6 1cc-d433-435a-aedc-77bea35543d1/public_url

University of Portsmouth (Kaplan) and University of Teesside (MDIS)

- Lecturer for Data Mining Rapid System Development course at Undergraduate Level at University of Portsmouth and University of Teesside
- Design and develop courseware for machine learning and data mining and Rapid System Development.
- Ensure proper classroom management during lectures, tutorials and lab lessons
- Prepare tests, question papers and marking scheme (QPMS) and act as invigilator and markers
- Create courses at Udemy.com and EMHAcademy.com and gives them to students for free
- Create softwares for students at http://dstk.tech

Adjunct Faculty

2017 - Present

University of the People

- Adjunct Faculty for Python and Java Programming, Data Mining, Artificial Intelligence at Undergraduate Level
- Facilitate the course and ensure proper classroom management during lectures, tutorials and lab lessons
- Communicate with adult undergraduate students and grading of their work.
- Asynchronous teaching and other activities related to online learning.
- Create courses at Udemy.com and EMHAcademy.com and gives students for free.
- Create softwares for students at http://dstk.tech

Data Science Research Analyst (Data and Text Mining) 2015 - 2018 Institutional Statistics Unit, Nanyang Technological University

- Research, analyze and process the data to maintain or improve university's ranking in QS World University Ranking, THE Ranking and ARWU system
- Collect, Survey and Analyze data from various sources using Excel VBA, PivotTable, PivotChart, Python, R, SPSS Statistics, Tableau and Big Data system to produce visualizations and facilitate knowledge discovery
- Researched and Developed DSTK Data Science Toolkit (NTU version) based on the Python, R, VBA scripts I have developed to process the data for QS World University Ranking project.
- Implement advanced statistical analytics such as CHAID using SPSS Modeler to assist higher management in decision makings
- Managed junior analysts, including delegating and organizing of workflow and training provision
- Carry out market assessment and competitor research to provide further perspective and insights of university current position and future directions

Adjunct Lecturer

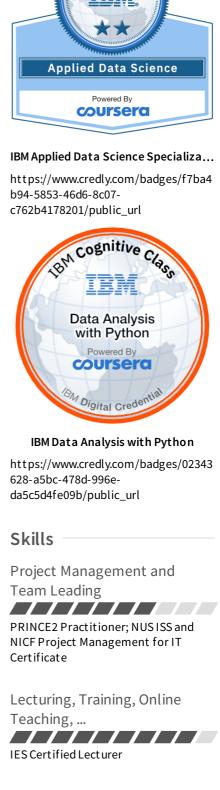
2015 - 2016

St. Hua Private School

- Lecturer for Advanced Diploma in Industrial Electronics, and Advanced Diploma in Industrial Design.
- Design and develop courseware for courses such as C and Java Programming, Microcontroller Interfacing
- Ensure proper classroom management during lectures, tutorials and lab lessons
- Prepare tests, question papers and marking scheme (QPMS) and act as invigilator and markers

Management (SEO/SEM) - St. Hua Private School

- Working with General Manger of St. Hua Private School to improve operations, sales and profitability using SEO/SEM
- Derive SEO/SEM and Social Media Marketing strategies to improve online presence and revenue growth
- Plan, Manage, and Delegate tasks to staffs and coordinate the progress to ensure optimal performances
- Identify training needs and conduct required lectures to ensure staffs' competency for their job



Data Mining (incl. SPSS, SAS)

Text Mining (incl. SPSS, SAS)

Statistical Analysis (SPSS, R)

Data Science Researcher (Social Network Analysis) Singapore Management University 2014 - 2014

- Research, develop and prototype a recommender system to recommend romantic relationships from chinese Sina Weibo data using Java, Natural Language Processing, SNA and Background Net algorithm
- Conduct data analysis, Social Network Analysis, and Prediction Modeling on data to facilitate knowledge discovery and model improvement
- Convert prediction models into software system and implement 10 fold crossover validation system to evaluate model or system accuracy
- Research and implement techniques such as LDA topic clustering to improve model accuracy and efficiency

Data Science Researcher and Leader (Text Mining, Machine 2012 - 2013 Learning)

CrimsonLogic Pte. Ltd.

- Lead, and develop an intelligent system to automate Singapore Custom trade facilitation business process
- Conducted data exploration, preprocessing and predictive analytics using machine learning and natural language processing to select and derive an accurate model for the business problem
- Evaluate developed prediction model using cross validation and convert it into an intelligent system
- Research on system improvements from three aspects: Data Integrity, User Input semantic extraction, and Algorithm, to attain an average classification accuracy of 80%
- Study existing data mining software (SPSS, SAS) to implement advanced features such as automated data preprocessing and visualization

Research Staff (Product Design and Machine Learning) 2010 - 2011 Singapore University of Technology and Design

- Ment ored and guided Junior College students in scientific projects during their Temasek Wow Exchanges
- Assist MIT Professor in research, design, and development of Low Cost
 Pneumatic Sensors using Solidworks, Arduino and Software Development (Java, C#, C) with regressions and machine learning
- Facilitated SUTD Professors in Research, Design, and Development of Cost Effective Medical Intravenous Drips monitoring device using Inventor, Solidworks, Arduino and Software Development
- Tested, evaluated and feedback on various laboratory equipments and education technology, research papers and innovative teaching methodology such as the BLOSSOM system

Founder and Manager 2010 - 2012

BoozeDesign (ACRA Reg. No.: 53172887X)

Technologist 2008 - 2010

Singapore Armed Forces

Teaching Assistant, Technical Apprentice, Event 2006 - 2007

Management

Ngee Ann Polytechnic

when you get to know him well. He was

- Claire Lin

More on LinkedIn:

https://sg.linkedin.com/in/gohminghui8

Machine Learning, Predictive
Analytics

Data Visualizations (Tableau, Excel, Excel VBA)

Big Data (Hadoop, Apache Spark, Python)

GSTF Certified Big Data Science Analyst

Software Engineering and Development (Java, C#, C, PHP, MySQL)

Engineering and Design

Recommendations

"I have known Ming Hui for over 2 years during my stunt at NUS for Masters Course. He is dedicated, sincere and hardworking and has always gone the extra mile to ensure delivery for the team and project as whole. He looks very silent but targeted and focused. He is clear on what he wants in his life. Ming Hui is a positive, down to earth at the same time energetic, aggressive and enterprising person with great interpersonal and technical skills. I wish him the very best in his future assignments."

" Ming Hui was a diligent student back when We were classmates. He is actually

a very helpful and approachable friend

also very focused with his work and is

passionate about technology related

topics. I believe he will strive his best in

whatever goals he wants to achieve. "

- Sachin Nair

Education - Global Renaissance

Master of Technology degree in Knowledge Engineering 2012 - 2013 National University of Singapore - Singapore

- <u>Thesis:</u> Advanced Product Code Categorization System using Background Net Algorithms and Natural Language Processing (NLP)
- <u>WES Evaluated US Equivalence</u>: Master's degree in Knowledge Engineering. 80 graduate credits.
- <u>Courseworks includes:</u> Data Mining, Text Mining, and Machine Learning (Neural Network, Fuzzy Logic, Case Based Reasoning, Genetic Algorithm, ...), SPSS Modeler (w. Text Analytics), SAS Enterprise Miner, Enterprise Java
- GSTF: GSTF Certified Big Data Science Analyst
- IBM: IBM and Coursera Data Science Professional Certificate (Python)
- Johns Hopkins University: R Programming Coursera Verified Certificate
- <u>Rice University</u>: <u>Business Statistics</u> and Analysis Coursera Specialization Certificate (Excel)

Executive Master of Business Administration degree in IT 2010 - 2013 Management, 1st Division

U21Global (aka. GlobalNxt) and IGNOU - India & Singapore

- <u>WES Evaluated US Equivalence</u>: Master's degree in IT Management. 37.5 graduate credits.
- <u>Capstone</u>: Rise of Singapore University of Technology and Design An Observational Case Study
- ESSEC Grande Ecole Business Exchange Paris, France
- WSQ and Hanban Business Chinese Test (Level 4 out of 5) China & Singapore
- <u>AIIM</u> Certified Business Process Management Master (BPMM); <u>NUS</u> and NICF Certificates in Project Management for IT
- Completed while working in Singapore University of Technology and Design, left exams in National University of Singapore.

Graduate Diploma in Mechatronics

2010 - 2011

A*STAR SIMTech - Singapore

- <u>UK NARIC Evaluated:</u> Is considered comparable to N/SVQ Level 5 standard. SVQ Level 5 is master degree level
- <u>Courseworks includes:</u> Apply Industry Robots and Automation, Design Precision machines, Enhance Control Performance of Precision Machine,...
- WSQ Gold Badge and <u>Yonsei University</u> Internet of Things(IoT) and Augmented Reality(AR) Emerging Technologies Coursera Verified Certificate
- AshWorth College: Career Diploma, honors, in Graphic Design (2D); Udemy Learn 3D Modeling: Blender Basics under 2 hours certificate
- Completed while working in Singapore University of Technology and Design

Bachelor of Science Degree in Computing

2009 - 2010

University of Portsmouth - UK & Singapore

- Credits Transferred with Diploma (Merit) in Electronics & Computer Engineering from Ngee Ann Polytechnic, 2005-2008
- <u>Courseworks includes:</u> Advanced Systems Development (UML), Database Design and Management (SQL, ERD and EERD), Human Computer Interaction and Design
- <u>W3School:</u>Certified PHP Developer (PHP, MySQL)
- Completed during full time National Service.

Diploma with Merit in Electronics and Computer Engineering

2005 - 2008

Ngee Ann Polytechnic

- Competition: Tan Kah Kee Young Inventors' Award
- Courseworks includes: Robotics, Control Theory (Neural Network and Fuzzy Logic), Microcontroller interfacing, C Programming, Advanced and Fundamentals of Object Oriented Programming(C#), Internet Technology (Java, JSP)

Skills and Continuing Education

Big Data (Hadoop, Apache Spark)

- Massachusetts Institute of Technology, MIT: Tackling the Challenges of Big
 Data Certificate
- GSTF Certified Big Data Science Analyst (CBDSA) Hadoop, HIVE, HBase, RapidMiner
- UC Berkeley: Introduction to Apache Spark (Big Data, Python) EdX Certificate

Statistics and Data Visualization (R, Excel, Tableau)

- <u>Duke University</u>: <u>Data Visualization</u> and Communication with <u>Tableau</u> Coursera Certificate
- <u>Rice University</u>: <u>Business Statistics</u> and <u>Analysis</u> Coursera Specialization
 Certificate (Intro to <u>Data Analysis using Excel</u>; Basic <u>Data Descriptors</u>, <u>Statistical Distributions</u>...; <u>Hypothesis Testing</u> and <u>Confidence Interval Estimation</u>; <u>Linear Regression</u>)
- <u>University of Colorado, Boulder: Excel/VBA</u> for Creative Problem Solving Part 1 and 2 Coursera Verified Certificates

Advanced Analytics (Predictive, Prescriptive,, SPSS, SAS)

- Imperial College London: Introduction to **Statistics using SPSS** Certificate; <u>Big Data University</u>: **Predictive Analytics** I (SPSS Modeler) Certificate
- Wesleyan University: Data Management and Visualization Coursera Verified Certificate (SAS Studio SAS Programming)
- IBM: IBM and Coursera Data Science Professional Certificate(SQL, Python for data analysis, data visualizations, machine learning)
- Johns Hopkins University: R Programming Coursera Verified Certificate
- Rice University: Python Programming Essentials Coursera Verified Certificate
- <u>University of Waikato:</u> More Data Mining with WEKA Certificate
- <u>DeepLearning.ai</u>: Neural Networks and Deep Learning Coursera Verified Certificate
- <u>University of Penn:</u> Customer Analytics Coursera Verified Certificate

Web Development (Data Science Focus)

- HKUST: HTML, CSS, Javascript; and Front End Web UI Frameworks and Tools: Bootstrap 4; Front-End JavaScript Framework: Angular (MVC); Multiplatform Mobile App Development with Web Technologies: Ionic and Cordova Coursera Verified Certificates
- W3School: Certified PHP Developer (PHP, MySQL) (backend)
- <u>Udemy: Chart JS</u>, the Complete Guide Certificate (*Data Visualizations*)
- Johns Hopkins University: Developing Data Products Honor Code Certificate (R and Shiny, aka. R Web Application Development)

Leadership and Management

- <u>AIIM</u> Certified **Business Process Management** Master (BPMM)
- APMG PRINCE2 Practitioner Project Management Certificate (from 2013 to 2018); NUS and NICF Certificates in Project Management for IT
- John Hopkins University: Managing Data Analysis Coursera Verified Certificate

Education

- Hongkong University: University Teaching Coursera Verified Certificate
- <u>International Educational Society</u> Certified **Lecturer** (400 **face-2-face** teaching hours)
- <u>University of Wisconsin-Madison:</u> Fundamentals of **Online Teaching** Certificate
- <u>University of Houston System:</u> Powerful Tools for Teaching and Learning: Web 2.0 Tools

Hobbies

- Stanford University: Stanford Introduction to food and health Coursera certificate (USA)
- Udemy: China Table: Learn to Cook Traditional Chinese Cuisine (Chinese)
- Udemy: Become Great with Coffee | From Beginner to Barista

- Alison: Growing Organic Food Sustainably (Grow your own food and vegetables)
- AshWorth College: Career Diploma, honors, in Graphic Design (2D); Udemy Learn 3D Modeling: Blender Basics under 2 hours certificate
- TEEX: Forensic Photography;
- <u>PADI</u> Advanced Open Water Diver; <u>Singapore Sport Council</u>: <u>Bronze award in Intermediate Swimming Certification</u>

Professional Memberships

Institute of Management Specialists (I.M.S.)

• Fellow Membership in Institute of Management Specialists (F.I.M.S.)

Association for Computing Machinery, ACM

• Membership at the Association for Computing Machinery, ACM

Languages and Others

Languages

• English (Advanced), Chinese (Advanced)

Courses Taught

The University of Teesside (through MDIS)

Undergraduate:
 Rapid System Development

The University of Portsmouth (through Kaplan)

• Undergraduate:

U26503: Practical Data Analytics and Mining (Full-time and Part-time) Internet of Things

University of the People

· Undergraduate:

CS4407: Data Mining and Machine Learning

CS4408: Artificial Intelligence CS1102: Programming I (Java) CS1103: Programming II (Java)

CS1101: Programming Fundamentals (Python)

 ${\it CS2205: Web\ Pro\ gramming\ 1\ (HTML,\ CSS,\ Javascript,\ XML,\ PHP)}$

CS2203: Databases 1

Amity Global Institute

Guest Lecture:

• Introduction to Data and Text Mining

EMHAcademy.com

Micromaster, nano..., E-Diploma

• E-Diploma in Data Science

Face-to-Face Courses

- Learn R Programming for Data Mining
- Learn Python Programming for Data Mining
- Learn Microsoft Excel for Data Analysis
- Learn Rapidminer for Data Mining

SVBook and EMHAcademy Certificates

- SVBook Certified Data Miner using R (Exam)
- SVBook Certified Data Miner using Python (Exam)
- SVBook Advanced Certificate in Data Visualization and Front End Web Development (Exam)
- SVBook Advanced Certificate in **Software Development** (Exam)
- SVBook Advanced Certificate in Microsoft Office (Exam)
- SVBook Advanced Certificate in Microsoft Office and Data Analysis with Excel (Exam)
- SVBook Advanced Certificate in Data Visualizations and Back End Web Development (Exam, Pending)
- SVBook Advanced Certificate in Data Science with DST K3, Excel, RapidMiner (Exam)

Advanced Data Science

- Machine Learning with Python
- Machine Learning with R
- Machine Learning with Java and WEKA
- Machine Learning with WEKA
- Data Visualizations using R with Data Processing
- Applied Statistics using R with Data Processing
- Data Visualizations using Python with Data Preparation
- Applied Statistics and Data Preparation using Python
- Data Mining with RapidMiner (Pending)

Data Science

- Fundamentals of Python for Data Mining
- Fundamentals of Java for Text Mining and NLP
- Introduction to Data and Text Mining with DSTK3

Front End Web Development and Data Visualization

- Fundamentals of Plotly JS for Data Visualization
- Learn HTML Basics Fast
- Learn CSS Basics Fast
- Learn Javascript Basics Fast
- Learn Bootstrap Basics Fast

Back End Web Development and Data Visualization

- Learn PHP Programming Basics Fast (Pending)
- Data Visualizations and Dashboards with PHP and MySQL (Pending)
- Learn MySQL Basics for Data Science

Software Development

- Create Your WebBrowser Learn C# Fundamentals Practically
- Create Your Calculator: Learn Java Programming Basics Fast
- Create Your Calculator: Learn C# Programming Basics Fast
- Create Your Calculator: Learn Python Programming Basics Fast
- Learn R Programming Basics Fast
- Create Your Calculator: Learn C Programming Basics Fast

Office and Business

- Learn Microsoft Word Basics Fast
- Learn Microsoft PowerPoint Basics Fast

- Learn Microsoft Excel Basics Fast
- Learn Data Analysis using Microsoft Excel Basics Fast

St. Hua Private School

Advanced Diploma in Industrial Electronics:
 PCB Design
 Computing (aka Computer Programming)
 Radio Networks
 Electronics
 Microcontroller

 Advanced Diploma in Industrial Design: Introduction and Theory of Industrial Design Ergonomics Managing Projects

Publications and Patents

Book

- E. G. M. Hui (2018). Learn R for Applied Statistics. Apress
- M. H. Goh. Learn By Examples A Quick Guide to PowerApp and Power BI. LeanPub (MDIS)
- M. H. Goh. Asian Eastern Recipes Club Singapore Recipe. Lean Pub
- M. H. Goh. Learn By Examples A Quick Guide to **Graphics and Design with Dia, GIMP** and Inkscape
- M. H. Goh (2019). Learn By Examples A Quick Guide to Data Mining using Weka and Java using Weka. LeanPub (Kaplan)
- M. H. Goh (2019). Learn By Examples A Quick Guide to Data Mining using Weka and RapidMiner. LeanPub (Kaplan)
- M. H. Goh (2018). Learn By Examples A Quick Guide to Java Programming for Text Mining and NLP. LeanPub
- M. H. Goh (2018). Learn By Examples A Quick Guide to Introduction to Data and Text Mining using DSTK 3. Lean Pub
- M. H. Goh (2017). Learn By Examples A Quick Guide to IoT with Arduino and Data. LeanPub
- M. H. Goh (2016/17). Learn By Examples A Quick Guide to **Data Science with Python**. LeanPub
- M. H. Goh (2016). Learn By Examples A Quick Guide to C# Programming. Lean Pub

Articles, Book Chapters, Monographs

- M. H. Goh (2016). Data Science in Hospitality and Tourism Businesses. Institute of Management Specialists
- M. H. Goh (2010). Singapore University of technology and Design The **Rise of Singapore Fourth University**. Universitas 21 Global

Web Articles

- Eric M. H. Goh, (n.d.). Data Scraping from Speech to Text. Retrieved April 03, 2018, from https://www.codeproject.com/Articles/1236865/Data-Scraping-from-Speech-to-Text
- Eric M. H. Goh, (n.d.). Data Scraping from Image using Tesseract. Retrieved April 03, 2018, from https://www.codeproject.com/Articles/1237204/Data-Scrapingfrom-Image-using-Tesseract

 Eric M. H. Goh, (n.d.). Web Scraping using Regular Expression and HtmlAgility. Retrieved April 03, 2018, from https://www.codeproject.com/Tips/1237202/Webscraping-using-Regular-Expression-and-HtmlAgili

Researches and Projects

DSTK - Data Science Toolkit 3 (Statistics, Data and Text Mining, Machine Learning, 2018)

• DSTK - Data Science Toolkit 3 is a set of data and text mining softwares, following the CRISP DM model. DSTK offers data understanding using statistical and text analysis, data preparation using normalization and text processing, modeling and evaluation for machine learning and statistical learning algorithms. It is based on the old version DSTK at https://sourceforge.net/projects/dstk2/ChartPlotter is a New Addition to the DSTK softwares, and it allows you to build interactive Plotly JS charts and dashboards in minutes, using only mouse clicks. DSTK Studio allows you to build recommendation and prediction data products. DSTK 3 consists of DSTK Engine, DSTK ScriptWriter, DSTK Studio, DSTK Text Explorer, and DSTK ChartPlotter. DSTK Engine is R simplified, focusing on Data Mining. DSTK ScriptWriter offers GUI to write script for DSTK Engine. DSTK Studio offers SPSS Statistics like GUI for data mining, DSTK Text Explorer offers GUI for Text Mining, and DSTK Chart Plotter offers GUI for data visualizations.

Technologies: C#, Java, R

DSTK - Data Science Toolkit (Statistics, Data and Text Mining, Machine Learning, 2017, used in NTU QS World University Ranking Project)

A data science workbench that offers statistical analysis, data visualizations, predictive analytics, text analytics (POS Tagging, name-entity, text classification/clustering, and text link analysis). Hosted at sourceforge.net. DSTK-Data Science Toolkit (NTU version) is used in Nanyang Technological University's (NTU) QS World University Ranking project, and I have written a guide and passed it down.

Technologies: C#, Java, Python, R

JATI - Just Another Tesseract Interface (OCR, 2018, used in NTU QS Mobile Apps Project)

Tesseract OCR is an open-source, highly accurate image-to-text converter.
 Nevertheless, Tesseract OCR provides only a command line interface. JATI is just another interface to the Tesseract OCR engine, providing GUI interface to convert an image to text. It can do batch conversion, including converting only portion of the image into text. This software is used in Nanyang Technological University's QS Mobile Apps Project.

Technologies: C#, Java, Python, R

JATE - Just Another Text Editor (pending, 2022)

JATE or Just Another Text Editor is a simple and small text editor that has syntax highlighting to edit HTML, Javascript, PHP, SQL, C/C++, Python, R, Java, C#, Lua, VBA, Markdown, Pascal, Tex/Latex. It can compile. C, C++, Java codes. JATE can also do maths equations using solve, expand, simplify, derivative, limit, sum functions of Yet Another Computer Algebra System (YACAS), and plot 2D and 3D graphs using GNUPlot. JATE also has MD5/SHA hash tool, Encrypt Text tool, Text to Speech tool, and Regular Expression Tester Tool. JATE is a replacement for QuillEdit and DSTK ScriptWriter, and can help my University of the People students in Python course.

Technologies: C#

YADBS - Yet Another Database Studio is a tiny and fast MySQL Database GUI. YADBS
has MySQL Connections Interface, MySQL SQL script to datagrid view, and csv to
SQL converter, and SQL insert, delete, select, update GUI. This is a software I
created for my Kaplan student to help them in the data warehouse assignment
for PDAM.

Technologies: C#, MySQL

JAETL - Just Another ETL Tool (ETL, 2020)

JAETL - Just Another ETL tool is a tiny and fast ETL tool to develop data
warehouse. JAETL allows to Extract data from ARFF (Weka), CSV, and SQL,
Transform the data with join, replace missing values, remove duplicates, mapping
filtering, variable selection, and Load the data into SQL server and export to CSV
and ARFF. This is a software I created for my Kaplan student to help them know
ETL for PDAM.

Technologies: C#

SwiftMiner (Data and Text Mining, Machine Learning, 2013)

 An advanced text classification system to correctly categorize unstructured product descriptions input from customers into Singapore Custom HSCodes within ~1 seconds.

Technologies: C#

QuillEdit (My first C# software, 2006)

QuillEdit is an enhanced notepad (maybe Wordpad also) replacement. It includes all the features in notepad plus Math equation editor, Symbolic calculator, graph plotter, FireEdit syntax highlighter, spelling checker, word counter, and MDI interfaces. I learn C# programming (FOOP and AOOP) at Ngee Ann Polytechnic and developed this QuillEdit software so that I can write x^2 in a nicer way.
 Mackichan Scientific Notebook used by Ngee Ann Polytechnic needs to be on Campus then can use. I created QuillEdit, and QuillEdit has Equation Editor that exports Latex, and the Latex is put into Yet Another Computer Algebra System (YACAS) to do maths problems and output results in Latex. The Latex is converted to images. Mackichan Scientific Notebook also uses Latex and Mupad Computer Algebra System. I used a lot of libraries at that time because I learnt C# progarmming from Ngee Ann Polytechnic not long.

Technologies: C#

JATAS and JAOSS (statistics, data and text mining, machine learning, 2016)

Both JAOSS and JATAS are online data mining and text mining systems that allows
quick-to-go analytics, available everywhere, for users to use before proceeding to
more advanced tools such as SPSS Statistics & Modeler or SAS Enterprise Miner.

Technologies: R, R Shiny

JABFR - Just Another Batch File Renamer (2017)

• JABFR or Just Another Batch Files Renamer is a simple and small file renamer program. It allows you to rename many files at one go. This is a software I created for my University of the People students to show them how to create software at sourceforge.net and github using Java.

Technologies: Java

YARET - Yet Another Regular Expression Tool (2020)

YARET or Yet Another Regular Expression Tools is a Simple Regular Expression
 Tools or tester. This is a software I created for my University of the People
 students to show them how to create software at sourceforge.net and github
 using Python. This is a GUI software and compiled to .exe.

Cost Effective Pneumatic Sensors (product design, engineering, 2011)

Designing a sets of pneumatic sensors using pitot tubes, coke bottles and etc. to
measures fluid pressure and fluid flow speed. The objective is to create low cost,
disposable sensors. This project is created while working at the Singapore
University of Technology and Design (SUTD).

Technologies: C Programming, Arduino, 3D Printer, Autodesk Inventor, Solidworks

Chameleon Helper (product design, engineering, 2007)

 A decorative timing device to help restaurant provides better services by signalling waiter about customer waiting time. This Project won Tan Kah Kee Young Inventors' Merit Award in 2007 while in Ngee Ann Polytechnic.

Technologies: PIC26F84 interfacing, C programming

Writer Helper (2019)

 WriterHelper consist of WordNet Dictionary, WordNet Thesaurus, Plagiarism Checker, Encryption using TripleDES, and AES. This is a software I created for my student to write research report.

Technologies: C#

JAFG - Just Another FFmpeg GUI (FFmpeg, 2022)

 JAFG or Just Another FFmpeg GUI is an interface to FFmpeg. JAFG allows conversion of audio to audio file, conversion of video to video files. JAFG allows changing of the Audio Bitrate, Audio Sampling Rate, Audio Channels, Video Codec, Video Bitrate, Video Size, Aspect, Framerate. JAFG also allows converting to DVD, DV, VCD, SVCD and can be pal, ntsc, film.

Technologies: C#, FFmpeg

JASC - Just Another Screen Capture (FFmpeg, 2022)

 JASC - Just Another Screen Capture is a software that can record screens and capture screenshots. It is based on FFmpeg, and can convert video using JAFG -Just ANother FFmpeg GUI.

Technologies: C#, FFmpeg

JAYTD - Just Another YouTube Downloader (2022)

• JAYT D or Just Another YouTube Downloader is a software that uses youtube-dl to download YouTube videos. It can download YouTube Video, download audio of YouTube Video, and convert videos using JAFG - Just Another FFmpeg GUI.

Technologies: C#

JAAR - Just Another Audio Recorder (2022)

• JAAR or Just Another Audio Recorder is a software that is can record audio. It is based on NAudio library.

Technologies: C#

JAFS - Just Another File Shredder (2022)

• JAFS or Just Another File Shredder is a software that is able to shred files using random bytes..

Technologies: C#

• JASF - Just Another Secure Folder is a software to lock and unloack your folders.

Technologies: C#

JAFE - Just Another File Encrypter (2022)

• JAFE - Just Another File Encrypter is a simple file encrypter software.

Technologies: C#

JAEE - Just Another Equation Editor (2022)

 JAEE - Just Another Equation Editor is an Equation Editor using Latex. It can allow Latex input and convert them to images. You can save the image or copy the image. This software is inspired by KLatexFormula, but uses CSharpMaths Library. I do not know what KLatexFormula uses.

Technologies: C#

JAQRGen - Just Another QR Generator (2022)

• JAQRGen - Just Another QR Code Generator is a n easy to use QR Code Generator. JAQRGen used the SkiaSharp QR Code library.

Technologies: C#

JARET - Just Another Regular Expression Tool (2022)

• JARET: Yet Another Regular Expression Tools is a Simple Regular Expression Tools.

Technologies: C#

More at: https://dstk2.sourceforge.io/

Appendix

- Qualifications and Certificates: gohminghui88
- Bio: https://www.visualcv.com/x2wptlqe07g/