

TAN JACKY

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EXECUTIVE SUMMARY

Software developer with a proven track record in Java and Python, specializing in the creation of automated backtesting strategies and web applications. Skilled in Agile methodologies, project management, and algorithmic trading. Strong problem-solving abilities demonstrated through successful project leadership and a passion for leveraging technology to deliver high-value solutions. Seeking software development roles to further enhance technical expertise and contribute to innovative projects.

SKILLS

Agile, Java, MySQL, Git, TDD, Python, PineScript, MQL5, Springboot, CSS, HTML, REST Api, Spring Security, Date Structures, Javascript, Data Analysis, Project Management, MATLAB, Algorithmic Trading, Excel, Jira, C#, ASP .NET

WORK EXPERIENCE

FDM, Software Development Consultant

Jan 2024 – Present

- Developed Recycle Bin Script via UNIX
- Developed multiple projects such as Hangman App, Currency converter and Elevator Project as part of OOD training using Java Multithreading, Git and Maven
- Developed Donation Web App, Database Access in Java (JDBC, JPA/Hibernate)
- Developed banking application with account, credit card and payment functionality using TDD principles, using SpringBoot and ThymeLeaf for Web Development, and Spring Security for authentication
- Lead Compliance Tracker POC project with client using C# and ASP .NET

Allozymes, Research Associate

Aug 2021 – Jan 2024

- Conduct screening and characterisation of enzymes which results in a 3-fold increase in product yield
- Conducted gene cloning, recombinant plasmid constructions in microorganisms
- Conduct Protein purification, protein quantification assays and enzyme kinetics
- Contributed to the scale up of fermentation process from shake flask to Bioreactors
- Assay Development and Optimization, improving signal to noise ratio
- Pitched presentation to organizations on company's technology and increase company's visibility

Fiverr, Pinescript Freelancer

Feb 2022 – Present

- Earned over \$400 USD and achieved a minimum 4.2 star ratings, awarded the title of Level One Seller on Fiverr
- Converted trading ideas communicated by clients on their trading strategy and converted them to code on Pinescript
- Created strategies for automated backtesting and optimization via Tradingview
- https://www.fiverr.com/quant_trader

Self-Employed, Algorithmic Trader

Sep 2020 – Present

- Achieved average annual ROI of 20% over 4 years in FOREX, Indices, SPOT metals, and Oil markets.
- Utilized MQL5 and Tradingview pinescript for algorithm development and backtesting, saving months of backtesting
- Developed and deployed proprietary trading algorithms, demonstrating expertise in quantitative finance and programming
- <https://github.com/jokwok1>

GlaxoSmithKline (GSK), Technical Development Intern **Jan 2020 - Jun 2020**

- Managed the validation package on the SG9 Project, refers to the production of a New Chemical Entity molecule under Technical Development (TD) Department
- Designed Trips and Interlocks planning to assure safe execution of intended processes
- Assisted in coordination and planning of the Isolator Mock up, showing colleagues the new features and improvement of new isolator design
- Facilitated HAZOP meetings and marked changes on the ELD

EDUCATION

National University of Singapore **Aug 2017 – May 2021**
Bachelor of Engineering, Chemical Engineering, First Class Honours

- Cumulative CAP: 4.96, NUS Merit Scholar
- NUSS Medal For Outstanding Achievement

Python 100 Day BootCamp **Mar 2023 – Nov 2023**

- Angela Yu 100 Day BootCamp on Udemy
- Gained proficiency in automation, game development, app development, web development, data science, and machine learning, all using Python.
- Learned various Python libraries and frameworks including Selenium, BeautifulSoup, Request, Flask, Pandas, NumPy, Scikit Learn, Plotly, and Matplotlib.
- Developed a portfolio consisting of Python projects suitable for developer job applications.
- Created GUIs and desktop applications using Python.

VOLUNTEER AND EXTRA-CURRICULAR ACTIVITIES

Live Portfolio Manager, UltraCap Trading **Aug 2022 – Jan 2023**

- Successfully completed accreditation review, Ultra8 Smart Plan
- Manage live funded account of 100K USD
- Forex and Spot Metals Swing Trading

Expert Advisor development MQL5 **Aug 2022 – Jan 2023**

- Created automated backtesting strategies in MetaTrader5
- <https://github.com/jokwok1>

St. John Ambulance Singapore, Corps Liaison Officer **Jan 2019 – Mar 2023**

- Corps Liaison officer for Kranji Secondary School, being the overall head of the corp
- Bridge between the HQ and the school to align goals of each respective entities, ensuring all activities are carried out smoothly with objectives met

St. John Ambulance Singapore, Public Duty Officer

May 2013 - Jan 2019

Singapore Air Force, 160 SQN, Motor Transport Officer

Apr 2016 - Mar 2017

- Awarded outstanding officer of the quarter (Q3)
- Plan all driving details for over ten drivers
- Maintained the welfare and safety of all drivers
- Designed a spreadsheet program highlighting when vehicles are reaching maintenance dates, and calculates the date for the next maintenance service