

Azfar Yusri

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PROFILE

Computer Science and Design graduate specializing in Financial Technology and Artificial Intelligence. Expert in bridging financial theory with scalable software engineering. Proven track record in building quantitative engines, automated AI workflows, enterprise-grade BI/Data Engineering pipelines, and mobile robotics.

WORK EXPERIENCE

Ernst & Young Advisory Pte. Ltd

Sep 24 to Jan 25

Technology Consulting Intern, SAP platforms, Full-time

- Reported directly to the Senior Manager within a 12-member cross-functional department (Finance, Supply Chain, and Procurement) to facilitate a large-scale SAP S/4 HANA implementation for client company.
- Supported data migration activities, engaging with stakeholders to ensure 100% accuracy and timely data transfer for SAP and S/4 HANA platforms.
- Analysed datasets via Microsoft Excel. Identify trends, update statuses, and generate insights for project decisions.
- Developed SIT and UAT test scripts for quality assurance processes.

Sales & Marketing Specialist

Mar 22 to Jul 22

One Zeus Solutions, Full-time

- Trained directly by the Agency Owner and Partners in an intensive leadership development track, mastering direct marketing and interpersonal communication through high-impact door-to-door sales campaigns.
- Leveraged deep psychological understanding of customer needs and preferences to successfully meet and consistently exceed performance KPIs.
- Recognized with several Outstanding Leadership and Sales Awards for exemplary performance and contribution to team growth.

RELEVANT PROJECTS

1. Custom Decentralized P2P Ledger Protocol

Jan 25 to Mar 26

Distributed Systems, Cryptography, Persistence, Java

- Engineered a peer-to-peer blockchain protocol from scratch using Java NIO Sockets and ECDSA cryptographic signatures to ensure secure, non-repudiable transaction authorization.
- Implemented a Binary Persistence Layer for ledger durability and a real-time balance-tracking engine with built-in double-spend protection.

2. High-Frequency Sentiment & Volatility Correlation Engine

Nov 25 to Jan 26

Quantitative Finance, Statistical Modelling, Alternative Data, Python

- Developed a quantitative engine using Granger Causality and Z-score detection to identify lead-lag relationships between social sentiment and market volatility, utilizing Binance API for real-time data streaming.
- Engineered a real-time correlation analysis dashboard visualizing alternative data's impact on Realized Volatility to provide a measurable statistical edge for market positioning.

3. Enterprise BI & Data Engineering – Wide World Importers (WWI)

Feb 25 to May 25

Data Warehousing, ETL Pipelines, Business Intelligence, SQL Server

- Architected a Star Schema data warehouse and developed automated SSIS ETL packages to process raw transactional data, implementing complex cleaning logic and type transformations.
- Visualized \$172M+ in sales revenue via Power BI: Identified high-margin "High-Tech" product clusters and discovered a 36.8% data integrity gap in CRM categorization, leading to strategic data-quality recommendations.

4. DBS Credit Card Application Full-Stack SAAS with AI

May 24 to Sep 24

Full-Stack Web Dev, AI-OCR, Ruby on Rails, Project Management, Agile

- Collaborated with DBS to innovate and improve the credit card application user experience on their website.
- Implemented OCR-powered AI to auto-scan and autofill document information, increasing application efficiency by 30% and improving user experience.

5. AI-Powered Financial Market Forecasting System

Mar 24 to Apr 24

Deep Learning, Time-Series, MLOps, Cloud Deployment

- Developed an end-to-end predictive analytics pipeline using PyTorch and LSTM neural networks to forecast financial trends
- Outperforms linear models by 15-20% and deployed the system as a Dockerized FastAPI service on AWS SageMaker.

EDUCATION

Singapore University of Technology and Design

Sep 22 to May 26

Bachelor of Engineering, Computer Science and Design (Focus Track: Fintech)

Expected Graduation: May 2026

- Minor in Artificial Intelligence | Design Accredited
- Relevant Coursework: Machine Learning, Fundamentals of Investing, Financing Future Cities, Data Structures & Algorithms, Software Development, Service Design Studio, Mobile Robotics

University of Newcastle, Callaghan, Australia

Feb 25 to June 25

Global Exchange Program (GEXP)

- Relevant Coursework: Advanced Database Systems, Artificial Intelligence

Jurong Pioneer Junior College

Feb 18 to Nov 19

General Certificate of Education Advanced Level (GCE A-Levels)

- H2 in Computing, Mathematics and Physics

SKILLS

Software Systems & Engineering:

- Python (Pandas, PyTorch, TensorFlow), C++, C, Linux
- Java/Scala (P2P Sockets, Actor Model logic, Cryptography)
- SQL (CTEs, Joins)
- Dev Practices: AGILE, TDD (RSpec/Cucumber)
- ROS2

AI & Machine Learning:

- Time-Series Analysis
- NLP (GPT Integration)
- Probabilistic Graphical Models (HMM, Bayesian Networks)
- Computer Vision (OCR)

Quantitative Finance & Valuation:

- Equity Valuation (DCF, Comparables)
- Capital Budgeting (NPV, IRR)
- Portfolio Management (MPT, CAPM)
- Project Finance (PPP)

Fintech & Blockchain Engineering:

- Smart Contracts (Solidity)
- Web3 Integration (Ethers.js)
- SAP S/4 HANA & Fiori

Data Engineering & Visualization:

- ETL Architecture
- Dimensional Modelling
- Power BI, Matplotlib
- MySQL, MongoDB

Leadership & Professional Skills:

- Basic Project Management
- Cross-Sector Collaboration
- Problem Solving & Critical Thinking
- Adaptable & Growth Mindset

Languages:

- English (Professional)
- Malay (Native)
- Bahasa Indonesia (Fluent)
- Chinese (Basic)

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Madrasah Workshop: Design Thinking, SUTD Muslim Society

2023-2025, Program Director, Workshop Lead

- Led a team of SUTD students to organize and execute a 2-day workshop for Madrasah students in Singapore.
- Developed and implemented a comprehensive workshop curriculum, incorporating STEM (Mechanic, Coding, Electronic) concepts and Design Thinking (Double Diamond Framework) principles.
- Organized engaging hands-on activities, including, Scratch, real-world case studies, and a final line-following robot competition.

Sports Cluster Committee

2023-2024, Publicity Executive Director

- Championed major university events, including SUTD Sports Week 2024, by liaising with various committees and organizations.
- Designed and developed compelling content for social media marketing, leading to high conversion rates and attendance for events.

11th ROOT, SUTD Student Government Body

2022-2023, Media & Marketing Director

- Established seamless communication between ROOT and various university organizations to facilitate event promotion and operations.
- Revamped and developed new protocols and systems on ROOT platforms, improving the efficiency of content approval and promotion.

SUTD Football Club

2023-2024 Vice President

- Played a vital role in revamping the SUTD Football Club's presence by establishing pivotal connections with key university organizations.
- Successfully procured funds and facilitated club events, ensuring smooth operations and development.

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Sep-Dec 2023 Student

- Mastered C, Unix, and Shell scripting through intensive project-based peer-learning.