RUDY FERNANDEZ

Serial entrepreneur and 10 years senior experienced IT professional designing and enhancing advanced systems. Looking for a strategic role and opportunity at Alameda Research to contribute overcome tomorrow's challenges.

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Conduit Road, Mid-Levels, HK

Working visa until May 2024

HIGHLIGHTS

Programmation expertise	System architecture	Cross-department collaborator	Chinese ecosystem
Correlation analytics	Process re-engineering	Models and data forecast	7 years in Mainland
Global project management	Real-time APIs	Remote & local team management	

LANGUAGES

Chinese : advanced
English : fluent
French : native

SOFT SKILLS

Coachable
Embrace challenges
Fast learner
Forward thinker
Pattern recognition
Risk management

INTERESTS

Astrophysics
DeFi
Entrepreneurship
Personal growth
Poker
Quantum mechanics

EDUCATION

MSc in Computer Science & Technology (2013)
SUPINFO UNIVERSITY
Teaching option
Honors appreciation

EXPERIENCE

■ Crypto Quant Trader, Hong Kong
Nov 2020 - Present

- Created and developed an automated trading system in **Python**
- Design, backtest & program multi-timeframe and **HFT strategies** for futures, spot, and margin market. Live-testing two new strategies per month, generating 245 trades monthly on average with a 48.3% win-rate
- **Performance optimization**. Scanning and analyzing time reduced from 2 minutes to 5 seconds
- Real-time **performance monitoring**, alerts, and error tracking. The system includes previous results into account to define the target and the risk-reward ratio
- Portfolio management based on macro, on-chain, correlation & sentiment analysis (In progress)
- Arbitrage strategy amongst multiple centralized and decentralized exchanges (In progress)

Technologies: Anaconda, AWS, **CCXT**, Flask, Freqtrade, Glassnode, Matplotlib, Multiprocessing, **Python**, Quantconnect, Santiment, Scipy, SQL, **SQL Alchemy**, **Time Series Analysis**

■ Head of Business Intelligence, Hong Kong
Feb 2020 - Present, APM Monaco

- Mine the data warehouse and create **models to forecast expenses**. Hit a 99.3 % accuracy compared to actual costs
- Develop ETLs to collect data from different sources and assure **data integrity**. Implemented a middleware to synchronize data in **real-time across multiple systems**. Previously, it could take up to 3 days to push an order from the website to the ERP
- Work with the **Board** to define business requirements into a technical plan and communicate results to a range of stakeholders
- Provide pro-active analysis and proposals. Improved the roster efficiency by 7% by correlating the traffic with the weather
- In charge of multiple reports such as **PnL, Cashflow**, KPI Retail, KPI Web, or Margin Control
- Ensure all team members (based in **HK and China**) follow best practices, specifications and provide clear documentation. Reduced unnecessary questions from users and improved debugging time by 63%

Technologies: **Async analysis**, Draw.io, ES6, Excel, Golang, Jitterbit, MS Dynamics, Navision, Php, Postman, **Python**, **SQL**

■ Business Analyst & Lead Developer, Shanghai
Jul 2017 to Jan 2020, Mediasia Interactive

Working closely with the CTO, I analyzed clients' business environment to understand their needs, industry, specs and vision.

Technologies: **Async systems**, AliCloud, Django, Docker, NodeJS, Power BI, **Python**, ReactJS, RESTful API, **SQL**, Symfony, Wechat

■ Founder & CTO, Paris
Jan 2013 to May 2017, Sensafood

Created an app translating the menu of restaurants in every language, and tailoring it to every customer's diet.
Awards: TourMagEvent, Paris FR 2016 / Vinocamp, Bordeaux FR 2015 / Start-up Weekend, Monaco FR 2015 / Tourism'Innov, Marseille FR 2015

Technologies: AWS, Hotjar, NodeJS, Php, ReactJS, React Native, SQL, Symfony, Piwik, Progressive Web App

Dear Caroline and Sam,

My name is Rudy Fernandez. I am an innovative and passionate IT professional with **ten years of senior leadership** experience working in Greater China and Europe. In my spare time over the last twelve months, I have architected, designed, developed, tested, optimized, and monitored an automatic trading system achieving a 48.3% win-rate.

I would love to join the Alameda team as a Crypto Quant Trader. Alameda is one of the most successful crypto hedge funds in the world. The services and the challenges you address fully align with my philosophy: **leveraging technology to take advantage of financial opportunities**. I believe I can help Alameda Research continue to build on its success long into the future.

I will bring a real and positive impact to the team from day one. My motivation, skills, and experience will contribute to the company's success:

• **Analytical Problem-Solving**: As a strategic and analytical thinker, I have an insatiable **thirst to find solutions** and alternatives to driving effective results and achieve targets. Analyzing charts and other metrics, I exploit patterns to define signals. One of the strategies developed is tracking the correlation of multiple assets grouped by category. For example, if BNB's volatility increases, it is highly likely to affect other BSC tokens.

• **System & Software Architect**: I am rigorous, responsible, and action-oriented to the roadmap. Starting a new project, my go-to routine is to start by designing the technical plan. As part of the team, I **provide guidance and a clear target to each member**. My role is to understand the business requirements, object with technical difficulties, and provide alternatives according to the strategy and priorities. Being in charge of the technological part of the new loyalty program, I designed and coordinated the APIs among all the systems (POS, Website, ERP, CRM) and anticipated all possible scenarios. The project went from draft to live worldwide in **three months**.

• **Programming Expert**: I have acquired a deep and broad experience programming with multiple technologies, understanding the benefits and limitations of each. I **developed skills and concepts** to overtake any new or legacy project with effective debugging abilities. Joining APM Monaco, I was handed a critical with no documentation. Within three weeks, I took ownership, fixed bugs, added three features, and presented a solution to improve loading time.

• **Performance-Oriented**: Ensure rapid access to information for stakeholders to take appropriate actions in a limited time. The first version of the trading system took two minutes to scan each pair and timeframe. I combined multiprocessing and multi-threading while maintaining features such as database connection, error tracking, and CPU stability. It now takes five seconds.

• **Optimal Fast Learner**: Enthusiastic to gain knowledge, skills, and techniques, I embrace and **adapt quickly** to new responsibilities. I take each challenge as an opportunity to grow and sharpen my skills. When I started trading, I listed, studied, categorized, and analyzed every technical indicator and strategy that I could find. I enrolled in several courses and connected with other professionals working in hedge funds and Fintech. Failure didn't discourage me; it pushed me to think differently. I can now program at least two advanced strategies per month.

I believe that my personal and professional experience, coupled with my qualities, can be a real added value for the team. My career aspiration is to work surrounded by positive and engaging collaborators with the same mindset to grow, develop creativity, and reach our full potential. I sincerely hope to flourish, challenge myself and build an enriching life-long career at Alameda Research. Thank you for your precious time and for considering my application. It would be an incredible pleasure to converse furthermore with you.

Sincerely,
Rudy FERNANDEZ