Arjun Unni, Product Manager

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PROFILE

Quantitative Analyst and Financial Engineer with a strong foundation in energy and portfolio analysis from my PhD, combined with 4 years of experience as a Fin-Tech Product Manager. I have collaborated with cross-functional teams including web designers, UX/UI researchers, and developers, contributing to many financial products. My expertise spans working with equities, derivatives, robo-advisors, alternative investments, and structured notes, focusing on quantitative analysis, risk management, and Fin-Tech product development using tools like Python, Bloomberg, JIRA and Figma.

EMPLOYMENT HISTORY

Apr 2021 — Aug 2024

Associate Director-Product, Pi Securities PCL
Bangkok

- Conducted quantitative analysis and created ready-to-buy portfolios using global ETFs personalized to each investor according to their risk aversion.
- Worked on complex wealth solution products such as Robo-Advisors, structured notes, and alternative investments.
- Developed portfolios using Python and modern portfolio theory, incorporating risk parameters such as VaR and CVaR.
- Utilized Monte Carlo analysis for stress testing.
- Assisted in ad hoc tasks such as onboarding banks with diligent documentation for the legal and compliance team, migrating from Excel to Python, and creating enhanced Excel templates using advanced VBA coding.
- Created financial models for five stocks and five REITs to generate buy and sell recommendations.

Aug 2017 — Dec 2020

Research Assistant, Asian Institute of Technology
Bangkok

- Taught MATLAB and Python to master's students, covering topics from variable definitions to complex optimization algorithms like particle swarm optimization, applied to load flow analysis.
- Conducted research in deregulated power markets, including options, futures, and derivatives. Developed a novel fuzzy logic index to define a new risk-reward metric and applied it to renewable energy source planning.
- Performed statistical, qualitative, and quantitative analysis to support various research initiatives.
- Conducted rigorous research in financial modeling using MATLAB, Python, and Excel.

Jan 2014 — Jul 2016

Assistant Professor, Royal Engineering College and Technology
Thrissur

- Applied innovative teaching methods to enhance student learning objectives for eight courses.

EDUCATION

Aug 2016 — Dec 2020

Doctor of Philosophy, Asian Institute of Technology
Bangkok

Graduated as Valedictorian

Aug 2011 — Dec 2013

M-Tech in Power Electronics and Drives, Visvesvaraya National Institute of Technology (VNIT), Nagpur
Nagpur

Achieved a major milestone by building real-time controllers for a MAGLEV system as part of control systems project.

Aug 2006 — Apr 2011

Electrical Engineering, National Institute of technology(NIT)
Raipur

SKILLS

Securities (Finance)	Expert	Python (Programming Language)	Experienced
Research	Expert		
Financial Modeling	Experienced	Microsoft Office	Experienced
Quantitative Analysis	Experienced	Product Development	Experienced

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LANGUAGES

English	Highly proficient	Hindi	Very good command
Malayalam	Native speaker		