THE FUTURE OF COMMERCE SERIES: BLOCKCHAIN
Building IT with Blockchain

In the transition to Big Data, many leading companies found that their existing ledger systems were becoming inefficient. Siloed, and unable to cope with the growing amount of data, old ledger systems are vulnerable to slow transaction times, errors, misinterpretation, disputes and a rising number of cyber attacks. Finance and technology companies needed an unchangeable, consolidated data set that was quickly accessible throughout departments. Blockchain technology emerged as the way for enterprises to combat these challenges, and expedite many internal processes. Today, blockchain has seen successful proof-of-concept initiatives implemented across the finance, supply chain and technology industries, as it's benefits are becoming more accessible to those with the right capabilities. It is crucial for any enterprise involved with data to educate themselves on the impacts blockchain will bring to each industry, and this course will demonstrate how aggressive industry leaders have gained competitive edges through these processes.

Impact of blockchain initiatives

- Reduce manual effort
- Provide a single transparent platform that links multiple enterprise resource planning (ERP) systems
- Virtually eliminate complex processes such as disputes, reconciliations, help desks and workflow automation
- Reduce operations costs and overpayments
- Enable real-time reporting
- Decrease risks through verifiable and auditable transactions
- Build trust through shared processes and record keeping
- Digitally transform finance functions by integrating with technologies such as Artificial Intelligence (AI), Cognitive and Internet of Things (IoT)

Recommended Participants:
- C level, C-level minus 1
- Those who don't yet have FinTech strategy or looking for an industry disruption strategy
- Those looking engage in the latest technology

Duration: 1 Day

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Blockchain technology is widely considered a disruptive force in the financial services industry, as it allows for the secure recording, storing and transferring of data. Engage with thought leaders on how to leverage this technology and bring operational efficiency and security to your enterprise.

**Course Objectives**
For those looking to explore the full advantages of blockchain, NUS has collaborated with industry experts and imperial market research to develop a program for leaders and innovators to explore the benefits of blockchain distribution technology, and learn the best application method for their enterprise. This course presents high-level concepts, components, and strategies on building blockchain business networks, and will instruct directors through hands-on experience modeling and building these networks. We will progress through thought provoking discussions and definitive case studies to demonstrate the executive method of success in blockchain. In order to quickly benefit this course focuses on proof-of-concept strategies to position attending directors along the forefront in data systems.

**NUS Approach to Success**

1. Get to know blockchain
2. Identify opportunity areas for pilot
3. Custom build your blockchain

**Key Topics with Blockchain**
- Fraud reduction
- Know your customer (KYC)
- Trading platforms
- Payments
- System Integration
- Data fetching
- AI initiatives
- Compliance programs
Assoc Prof Keith Barrett Carter
Associate Professor
NUS, School of Computing
Program Director
Advanced Computing for Executives

Keith Carter’s mission is to “Help others succeed.” through his lecturing, writing, inventing, and mentoring. He also delivers results by leading several Big Data projects in retail, fintech, supply chain, and education. Personally, he leads a men’s bible study and with his wife a family bible study. He asks, “Why do people with good facts, make bad decisions?”

He is an associate professor at the NUS School of Computing, where he has two mandates: teaching and consulting. He has a passion for engaging and inspiring students to achieve more. He teaches Supply Chain Visualization, Purchasing and Materials Management and connects students with companies at all levels to bring the theory to life in the business world.

He consults senior business leaders on strategy, actionable intelligence, design thinking, and human capital. He is consultant to the president of Hong Leong Finance, the managing director of Bollore, Non-Exec Director of Datarama a FinTech startup, past Principal Advisor to KPMG and past Non-Exec Director of Mentorica (a mobile Big Data solution provider).

He is invited to speak around the world including prestigious venues TEDx, Gartner, IBM, KPMG, SingHealth, Media & Infocomm Development Authority, Financial Times, The Economist and more.

From 1999 to 2012 Keith worked for the Estee Lauder Companies, Global Supply Chain Center of Excellence, tasked to lead the strategic changes to supply chain to improve the overall performance of the company. Keith established and led Global Supply Chain initiatives: Supply Chain Intelligence, Knowledge Management, Transformation Governance, and Data Management. All to achieve end-to-end supply chain visibility.


Keith holds an MBA from Cornell University and a Bachelor’s degree in Electrical and Computer Systems Engineering from Rensselaer Polytechnic and is certified in procurement and counter-terrorism.