

Vincent Ngan

Experienced Software Technologist

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With over 30 years of enriched experience in software development, I am a seasoned Software Engineer, Architect, and Technologist. I've had the privilege to lead the development of mission-critical application systems for a globally reputed transportation and logistics company, where I played a key role in supporting their worldwide operations. I bring a unique blend of technical acumen, strategic insight, and leadership, with an established track record of delivering innovative solutions that drive business success.

Work Experience

From Systems Analyst to Principal Architect/Senior Manager

Hutchison Ports - Kwai Chung, New Territories

May 1989 to December 2021

Beginning my journey with Hutchison Ports in 1989 as a Systems Analyst, I ascended to the role of Manager, and ultimately Principal Architect - Information Technology, with a ranking equivalent to a Senior Manager, in 2000. My tenure spanned over three decades, concluding with my retirement in December 2021.

During my tenure, Hutchison Ports evolved from a local container port operation in Hong Kong to an international corporation with a global footprint in over 50 countries. Aside from the first generation, my contributions were instrumental in architecting all subsequent generations of the company's flagship container port operating system. I helped transition it from a mainframe to a large-scale distributed computing system, and ultimately to a cloud-capable platform with scalability to support global operations.

My key achievements during this time include:

1. Serving as lead designer of our award-winning, mission-critical terminal operations system, '3P', which launched in 1996. Developed with C and Tuxedo, a high-performance transaction processing middleware, 3P received numerous international accolades, including the Computerworld Smithsonian Award in the transportation and logistics sector.
2. As the principal architect of 'nGEN', the successor to 3P, I debuted it in 2003 with a strategic vision to support the company's aggressive global expansion. nGEN, developed with technologies such as Java EE, JMS, JPA, and Oracle in a distributed multi-tier architecture, is successfully deployed in over 50 container ports, including the world's busiest.
3. Pioneering the early adoption of cutting-edge technologies such as Java in 1996 and Java EE in 2000.
4. I served as the lead designer of 'ROSE', an innovative in-house developed Java application framework that predates Spring and exceeds it in features.
5. I successfully introduced and implemented Agile development methodology, facilitating rapid and adaptive responses to change.

6. Streamlined application development and deployment by introducing DevOps practices and integrating cloud computing technology.

7. As the lead designer of 'Hexagon', our latest in-house framework, I used Kotlin as the primary programming language and integrated the latest technologies such as Apache Kafka, Zookeeper, MongoDB, and Kubernetes.

Through these achievements, I continuously reinforced my dedication to innovation, strategic vision, and driving tangible business impact.

From Programmer to Systems Analyst

Hsin Chong Holdings Limited - Hong Kong Island

September 1983 to May 1989

Starting my professional journey as a Programmer with a renowned building construction company in 1983, I quickly progressed to the role of Systems Analyst before my departure in 1989. As a cornerstone of the IT department, my responsibilities encompassed the development and maintenance of a broad array of in-house applications.

These applications ranged from accounting and insurance systems to construction billing and resource management platforms, all of which were pivotal to the company's operations. These responsibilities required a deep understanding of mainframe systems and honed my skills in programming languages such as COBOL, proprietary 3GL, Pascal, and C.

In this role, I cultivated a strong foundation in programming and systems analysis, which became instrumental in my future career growth. My tenure here played a pivotal role in shaping my understanding of software development in the context of business operations, preparing me for my subsequent accomplishments at Hutchison Ports.

Education

Bachelor's Degree in Computer Science and Electronic Engineering

University of Birmingham - Birmingham

September 1980 to July 1983

Skills

- Cloud Computing (5 years)
- SQL (10+ years)
- Distributed Systems (10+ years)
- Java (10+ years)
- Linux (10+ years)
- JavaScript (5 years)
- Agile (5 years)
- MySQL (5 years)
- Scalability (10+ years)
- Systems Analysis (10+ years)

- Application Development (10+ years)
- Computer Science (10+ years)
- DevOps (5 years)
- Operating Systems (10+ years)
- Oracle (10+ years)
- Git (5 years)
- User Interface (UI) (10+ years)
- Computer Networking (10+ years)
- Jira (5 years)
- Software Development (10+ years)
- XML (10+ years)
- C/C++ (10+ years)
- APIs (5 years)
- Kotlin (5 years)
- Back-end development (10+ years)
- REST (5 years)
- Bootstrap (5 years)
- HTML5 (5 years)
- Scrum (5 years)
- Back-end development (10+ years)
- Back-end development
- Clean Code (5 years)
- Clean Architecture (5 years)
- Back-end development (10+ years)
- Back-end development
- Kafka (3 years)
- Maven (10+ years)
- Unit Testing
- GitHub (10+ years)

Languages

- English - Fluent
- Cantonese - Fluent
- Mandarin - Fluent