NICK TEN CATE

Solutions architect and technology specialist with over 20 years of experience in software engineering and network infrastructure.

WORK EXPERIENCE

2020-2025
The Hague, NL

SOLUTIONS ARCHITECT & LEAD OPERATIONS
at Ministry of Health, Welfare, and Sport

• Designed the CoronaCheck app algorithm and lead its implementation. Served on the core team, liaising with the municipal health services (RIVM/GGD), EU, and commercial medical providers.
• Lead the operations/hosting department with an objective to keep the CoronaCheck app and other department projects online 24/7.
• Managed API connections or database syncs between the ministry and RIVM, CIBG, and RVIG, and NCSC.
• Setup and actively particpated (on-call) in the network and security operations center.
• Performed DevOps duties between the operations team and development team. Setting up github actions, sync scripting, and (semi)automated deployment tooling.
• Technical liason to the EU-Health and WHO S.M.A.R.T. networks
• Guided the organization through international compliance regulations (NEN7510, ISO27001, and CMM-3) and the subsequent audit process.
• Operations liason to privacy, security, legal, and management teams.

2012-2020
Delft, NL

CO-FOUNDER & CHIEF TECHNOLOGY OFFICER
at OpenFiber B.V.

• Co-founded and served as CTO for a fiber optic network, offering gigabit internet, television, and phone services to 3,000+ corporate and consumer customers in 7 cities across the Netherlands with predicted revenue of €1M+ in 2020.
• Designed, developed, procured, and implemented all aspects of network infrastructure including back haul, last mile, equipment provisioning, and monitoring systems.
• Designed and implemented systems to capture, collect, process, and distribute 100+ television signals.
• Designed and implemented fiber optic installation for 20+ corporate and consumer properties (FTTH/FTTB, FTTC), including management of third-party construction, as well as hiring, training, and overseeing a 10 person team.
• Managed critical infrastructure across 7 datacenters providing 99.99% availability.

2009-2014
London, UK

CO-FOUNDER & CHIEF TECHNOLOGY OFFICER
at Fivecool Consulting Ltd. (Streamhub)

• Co-founded a live streaming and analytics platform, serving up to 750,000 concurrent streams.
• Served as CTO and led all aspects of engineering, including management of an 8 person team.
• Designed and programmed transcoding farm and metadata management platform with customized content delivery network (CDN), web and mobile video players, analytics collection, and processing solution.
• Scaled company in 5 years to provide global services by expanding the CDN to 5 countries and awarded International Broadcasting Convention award in 2012 and a digital Emmy in 2013.

2009-2014
The Hague, NL

ICT SOLUTIONS CONSULTANT
at NetCompany

• Redesigned existing network infrastructure to provide >1000 new connections, including introduction of sitewide WiFi and provisioning of >500 devices.
• Developed 20 custom solutions, such as RFid circuit boards to enabled integrated building access, printers, and vending machine.
• Implemented services such as roaming profiles, Windows Deployment Services, LTSP, freeradius, NPS, certificate authorities.
• First commercial company in the Netherlands awarded Eduroam (global educational roaming service) operating license in 2012.

CONTACT

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The Netherlands

TECHNICAL SKILLS

Operating Systems
Linux (Debian/CentOS/ RedHat)
Windows Server

Eco System
Azure
AWS

General Software
Apache/Nginx
Ansible/Chef/Puppet
Git/SVN
Docker
KVM/VMWareWowza
Nextcloud

Messaging
RabbitMQ

Database
PostgreSQL
MySQL/MariaDB
Minio/Ceph/S3
MongoDB
Redis/KeyDB

Monitoring
Nagios/Icinga/Grafana
Graylog

Ticketing
Jira/Confluence
Zammad
Github/Gitlab/Forgejo

Networking
ISC-DHCP
Quagga/Bird
Bind/Unbound

Compliance
NEN7510/7513
BIO (NL Government)
NIS2
ISO 27001

2007-2009
Leiden, NL

LEAD SOFTWARE ENGINEER
at Joost B.V.

• Managed video transcoding operations team of 10 employees across 3 global offices that partnered with business and engineering teams to facilitate media upload into backend systems.
• Developed web-based software to automate daily reporting, error handling, and metadata management.
• Prototyped a live video analytics system handling 100,000+ hits per second.

2005-2008
Amsterdam, NL

TECHNICAL CONSULTANT & SOFTWARE DEVELOPER
at Pathé Cinemas B.V.

• Performed quality assurance testing of new POS systems and new website.
• Responsible for deployment of new software packages to 10+ locations.
• Prototyped and pilot tested theater narrowcasting system.

2004-2005
Taipei, TW

CO-FOUNDER
at Taipei Night Life Ltd.

• Co-founded an event promotion company with 6 employees covering live performances in Taiwan.
• Designed, coded, and managed 2004 website including user profiles, distribution lists, and image and video galleries.

EDUCATION

2006-2012
Delft, NL

DELFT UNIVERSITY OF TECHNOLOGY
Completed coursework in Computer Science and Electrical Engineering.

2005-2006
Rijswijk, NL

TECHNICAL COLLEGE RIJSWIJK
Completed coursework in Electrical Engineering.

1994-2005
Taipei, TW

TAIPEI AMERICAN SCHOOL
Completed International Baccalaureate Program.

NETWORKING

Concepts

IPv4
IPv6
DNS
DHCP
BGP
OSPF
VLAN
MPLS
VPLS/VPSW/
VXLAN
IP-SG
IGMP
RTP

Fiber Optics

SM/MM
DWDM
Multiplexer

Networking Brands

Cisco
Brocade
Extreme
HPE
Mikrotik
Ubiquiti

Open Standards

Cryptography
(SSL, Hash, AES, X.509)
Communication
(XML, SQL, OpenAPI, REST)
ISO/IETF/RFC

PROGRAMMING

Java	●●●●●
PHP	●●●●●
Perl	●●●●●
Python	●●●●●
Bash	●●●●●
HTML	●●●●●
JavaScript	●●●●●
C	●●●○○
C++	●●●○○
Assembly	●●●○○
Visual Basic	●●●○○
Scala	●●●○○

LANGUAGES

English	●●●●●
Dutch	●●●●●

HOBBIES

Hospitality management
Tinkering with software and ciruits
Movies
Traveling