

# Yuval Wilf

R&D Manager – **Software development, Architecture, Infrastructure & DevOps**

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## SUMMARY

R&D manager, chief software architect, infrastructure, DevOps, & AI engineering manager. Experience with building large-scale network intelligence & Cyber architectures and infrastructure tools. Experience working with large customers, from pre-sale stages, performing critical design reviews, and technical requirements gathering, through high-level design, implementation, and production

Lecturer – Python full stack development, Python basics and advanced course, Python for data science, Design Patterns

AI lecture I gave in DevTalk 2022 - Romania: Harness AI models to prevent the next act of crime & Terror - predict criminal suspects: <https://www.youtube.com/watch?v=V-aXyGDp8LA>

## EXPERIENCE

### 2007 – Present – Cognyte (Verint) Cyber Intelligence Solutions

Verint's Cyber Intelligence division provides governments, critical infrastructure operators and enterprises, a wide range of solutions for protecting against terror and crime, and for mitigating cyber-attacks. Verint CIS is delivering ~400M\$ yearly revenue.

#### 2018 – Present – Senior Director of R&D – Infrastructure & DevOps Manager

- Managing 40 software engineers including PRO/Architects working toward a common goal of transforming Cognyte's products to adopt cloud-native practices.
- The group develops infrastructure tools to run and manage development components' overall development lifecycle, beginning with CI/CD, E2E automated system tests, deployment and installation automation, and continuous monitoring.
- Lead a fascinating prototype development of machine & deep learning models for our network intelligence product to predict criminal suspects. The development utilizes different models of NLP, Geo-Location, and deep learning to define the electronic signalling behaviour of suspects in order to predict similar behaviour over large data sets. The development includes full implementation of MLOps lifecycle deployment using mlflow infrastructure.
- The Infra group implements all the above capabilities over large deployments of projects on local labs and remote production sites.

#### 2016 – 2018 – Senior Director of R&D Architecture – Chief Software Architect

- Managed the CTC (Common Technology Center) architecture group consisting of 17 professional architects with different expertise of real time network interception, big-data technologies (Kafka, Spark streaming and batch processing, HDFS), Java, DB and Client GUI technologies.
- Lead the technological strategy and architecture solution of the division.
- Worked closely with the pre-sales organization and product management to transform customer technical requirements to purchased super large projects (hundreds of millions of dollars in sales) and defined the architecture solution and R&D estimation costs of such projects.
- Build state of the art, unique and innovative cyber solutions together with top notch research and data engineering teams.

#### 2014 – 2016 – Director of R&D Architecture – Lead Business Programs

- Managed a team of 4 architects and 2 system engineers

- Lead the architecture solution of Verint's **NDC** (National Defence Center) that protects nations against advanced cyber threats by extracting Actionable Intelligence directly from national backbone traffic. NDC is a very large unique and ground-breaking nation grade system that collects, analyses and provides tools for cyber investigations.
- Lead the project Architecture from PO phase to successful implementation on customer site.
- Conducted Critical Design Reviews and scoping meetings with the customers at customer site.
- Designed end to end architecture for this large-scale cyber project that included different domains, multiple subsystems and components.
- Researched for new cyber technologies and best practices to be implemented in such project.

#### 2007 – 2014 – **System Architect & Architect Team Leader**

- Designed large scale interception systems for homeland security that included hybrid data storage, multi-tier scalable back end system with traditional OLTP SQL databases, OLAP Data warehouse, real time data integrations, mass transaction processing and storage solutions.
- Patent inventor EP2587391B1 – “System and method of combined database system”
- Managed a team of 4 architects:
  - Accompany projects from pre-sale phase to successful implementation on customer site
  - Lead customer technical reviews
  - Define technical requirements and architecture solutions for such projects.
  - Research for new technologies and best practices to be implemented in such project.

#### 2004 – 2006 **J2EE/.NET Diagnostics / SiteScope - R&D Team Leader** **Mercury**

Mercury Diagnostics product best-of-breed solution that helps you ensure 24x7 application availability and performance to provide better quality of service to the business. Only Mercury Diagnostics enables you to start with the end user (real-user or synthetic-scripted transactions) and then drill down in context to quickly resolve a broad range of problems that can impact business availability

- Team Manager for 7 developers including an architect, developing Mercury's diagnostics management & monitoring application for J2EE/.NET / SiteScope
- Involvement in requirements gathering, functional research and mockups, designs, implementation, testing procedures and product release
- Coordinated development and project management work between Israel and US (development and QA teams).

#### 2000- 2004 **NMS (Network Management System) Team Leader**

##### **Main.net Power Line Communications**

Headed the development of the Network Management System of the company from the requirements phase through the architecture, design, implementation, testing and production rollout to 30 customers in the US and Europe. The NMS application is a web based distributed application that was written in Java and J2EE web and server-side specifications.

- Managing a group of 3 developers
- System Architect of the application

#### 1996-2000 **Internet Infrastructure Programmer & Team Leader – R&D Division** **Amdocs Inc.**

- Led a team of 3 programmers in development of infrastructure for the company Web Self-Service products based on the WebLogic application server. The infrastructure was divided into two tiers the Web which was based on JSP, Servlets and the Server Side.

- Java programmer in the infrastructure team – developed the connectivity infra of the project to different types of Amdocs legacy systems. The server infra was based on EJB and JDBC specifications.

## **Training, Consulting and Academic Experience**

2000 – 2006

### **Senior J2EE Lecturer and Consultant**

#### **Sela Laboratories – Training and Consulting**

Sela Laboratories is the second largest Training and consulting company in Israel. Some of the major Hi-Tech companies that Sela works with are Amdocs, RAD, Checkpoint, Comverse, Israel Aviation Industries and many more.

- Development, author and lecturer of the following J2EE courses
  - Developing Enterprise Applications using J2EE Technologies
  - Programming EJB 2.0 using WebLogic Server 8.1
  - EJB For Managers.
  - J2EE Overview & Object-Oriented Programming
- Lecturer of the following courses
  - Core Java, Advanced Java
  - Design Patterns – based on GoF book – giving this course up until now.
  - JSP and Servlets programming

2000 – 2010

### **Senior Lecturer ‘Advanced Internet Programming’**

#### **Netanya Academic College**

This is a third-year course in the faculty of computer science. The course teaches the student to write a web based distributed application based on the following technologies: JSP, Servlets, RMI, JDBC and SQL server. The ratio of lectures and labs in this course divided equally and the course grade is determined upon an end to end J2EE project implementation evaluation.

1998 – 2000

### **Lecturer of Data structures and C courses**

#### **Netanya Academic College**

## **CERTIFICATIONS & Main Courses**

- Data Science: Machine & Deep learning with Python – John Bryce – March 2021
- Basic DevOps & Advanced DevOps courses – DevOps Experts – 2019
- Cyber Security Technology Professional (Cyber Security Architect) – See Security Technologies - 2016
- Sun Certified Java Trainer – 2000

## **EDUCATION**

1993-1997

Tel Aviv University, Israel

B.A. in Computer Science and Accounting (Double Major)