# CV

# Bård Lind

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Age: 53
Years of experience: 31

**Profile**

Senior Developer primarily in Java.

Graph, IoT, Machine Learning and Data Visualization at Capra Consulting.

Strategic and operative Software Architect in Internet of Things (IOT) integration
platform. BigData analytics and visualization.
Strategic architect responsible for SOA development in Canal Digital AS.
Mentor for developers and architects. Professionally a driving force for faster
and more efficient development.
Previously active volunteer with javaBin and JavaZone.

Developed SOA Integration pattern with team from Objectware. See
http://soapatterns.org/candidate_patterns/enterprise_domain_repository

**Roles**

IoT Evangelist, Developer, Architect, TechLead, Dpt.Mnt Leader

**Technologies experienced**

IoT, Data Visualization, Data Ingestion, some Machine Learning, Java, DevOps, Docker,
Kubernetes, Databases, NoSQL, J2EE, Spring, SpringMVC, Spring Webservices, Hibernate,
Lotus Domino, DB2, mySql, Sybase, Websphere, Tomcat, Maven, OpenESB, GraphDb,
JDBC, Datatabases, OSWorkflow, Sybase, Oracle, My Sql, Ms-Sql, Oracle SOA Suite,
VoiceXML, AIX, Solaris, UML, CTI, Lucene, Solr, Graph Theory, Unstructured Data,
WebService, REST, TopLink, Hibernate, SQL, Perl, Python,DevOps,APM, Performance,
Neo4J, Facebook Graph, QT, Embedded Communications, Jira, Continous Deployment,
RFID, NFC, Java 3D,GigaSpaces,Dropwizard, Ratpack, Whydah,Sensors

# Highlighted experience

**IoT Architect,  Senior Developer, Tech Lead, Visionary**

> **Period:** 2020 Jan – 2022 Feb

> **Client:** Rebel, EntraOs

> The task was to build a new IoT platform. This platform must enable integration into Access Card systems, Building Automation Systems and Contract management system. Identity and Access management was integrated into aprox 40 customer IAM systems
> Bård had the role of building roadmap for Digital Transformation,, design the architecture and lead the team to building the platform. Bård was active contributor opening the API's from Entra's suppliers.

> **Technologies/Methods:** Java, AWS, Azure, IAM, BAS, Assa Abloy ARX

**IoT Platform Architect,  Senior Developer, Tech Lead, Roadmap**

> **Period:** 2016 Aug – 2018 March

> **Client:** Telia Division X, IoT Platform

> The task was to build a new IoT platform. This platform must enable partners to share data between them. On top of this platform the plan was to create a data market.
> Bård had the role of building roadmaps, design the architecture and lead the team to building the platform.

> **Technologies/Methods:** Java, NB-IoT, AWS IoT, Kinesis, AWS IoT Analytics, Sagemaker (Machine Learning). Docker, Kubernetes, Python, Infrastructure as Code.

**Senior Architect and Developer**

> **Period:** 2015 Jan – 2015 Apr

> **Client:** NMD, Automatic Orderingsystem

> Create a service to fetch configuration from Pharmacies's in-shop system.
> This service will present the actual status found in the Pharmacies. Later on we will send config update to these pharmacies.

> Currently this system has produced more than 3.5 trillion messages.

> **Technologies/Methods:** Java, Micro Services, Cloud, Windows Services,

**Senior Architect, Tech Lead, Developer**

> **Period:** 2015 May – 2015  Dec

> **Client:** Synaptic Technologies AS & Nornir AS, ThingyNet

> The project developed a platform for sharing Internet of Things data. The platform is built on a radical new design facilitating high number of connected clients.

> Synx BIOS is an distributed operating system kernel for the semantic web. The kernel enables bidirectional Linked Data for the web and is backward compatible with the World Wide Web.The new self scaling linking network is called Real Time Web and will be an open and free dataspace for anyone/anything that connects to the web.

> **Technologies/Methods:** Gigaspaces, Netty, AsyncCommunications,Dropwizard, Docker, Microservices,IoT

**Senior Architect and Developer**

> **Period:** 2014 Jan – 2014 Dec

> **Client:** Tomra, Return Vending Machines, communication and administration.

> Introduces better access control on data from Recycling equipment.

> Overview of properties in the reverse vending machines and representing them as graph.

**Technologies/Methods:** Graph, Neo4j, Continuous Deployment

### Senior Architect and Developer

**Period:** 2014 May – 2014 Dec

**Client:** Tomra – Receipt Control

Receipt Control would secure the shop's against fraud. The system is ensuring that the "return receipt" may only be used once.

Information from the machines is collected centrally at Tomra. The POS (shop) systemis validating a receipt by calling the Receipt Control system.

**Technologies/Methods:** MongoDb, WebServices, Json, Java, HW protocol, Event Driven, Micro Services, Cloud

### Senior Architect

**Period:** 2014 Aug – 2014 Dec

**Client:** Tomra – User Identity Backend (IAM)

Integration of Whydah IAM product in Receipt Conrol. Whydah is controlling the access both for the users, and the services involved.

Any service will have to authenticate to be able to access the external resources it is using. The access between user and application is issued on an individual connection. This will prevent abuse based on stealing eg username and password.

**Technologies/Methods:** IAM, OAuth 2.0, Token, Json, XML, Micro Services, Cloud

### Manager Architecture, Senior SOA Architect

**Period:** 2012 Jan – 2012 Sep

**Client:** Canal Digital

The head of a department of seven permanent and contracted architects. Should operationalize Canal Digital's strategy on SOA. The tasks include educating department staff. Day to day technical guidance and production of architectural documentation.

Interaction with the business is very central to establishing trust.

**Technologies/Methods:** Java, AppServere, Oracle, MS-Sql. Oracle SOA Suite. Kommunikasjon via Wiki, UML, Sequence diagrams, drawings on the wall. Scrum.

### Core-group, Technical guru

**Period:** 2011 Jan – 2011 Dec

**Client:** Telenor Norway – COS 2.0 Performance enhancement

Premise. Tech guru. Got introduced a radical new way to handle read operations.
The project began by defining the Use-cases, the SLA service level. These use-cases were designed by business.

Bard was leading on to introduce Search and Graph as a tool for pure read operations. During this project we observed a 1000 times performance gain.

**Technologies/Methods:** Neo4J, Solr, Lucene, Messaging, Graph, Gradle, Spring

### Seismic simulator Chief Architect

**Period:** 2007 Aug – 2008 Jan

**Client:** Western Ceco – Simulator Framework

WesternGeco is the world's largest supplier of geophysical services, it's crew and most comprehensive center for processing data in the field. The project we performed was associated with WesternGeco training center in Oslo and had as main task to provide better systems for simulation.

Bard was responsible for the architecture that was selected. Furthermore, he served as senior developer and mentor for the other developers on the team. The project was also the base for "OW test model" designed.

**Technologies/Methods:** Auto.Test,C, Java, OS Workflow, Seismic Data


## Course Instructor

**Period:** 2007 Apr – 2007 Jul

**Client:** Objectware

Along with SpringSource as held Bard courses in Spring for external participants.

Subjects were presented:
– Spring
– Spring ORM with Hibernate
– Spring MVC
– Spring WebServices (which was brand new at the time)

**Technologies/Methods:** Spring, Spring MVC, Spring ORM, Spring Webservices, Spring Remoting, Hibernate


## Evangelist Spring, Maven and Agile methodologies

**Period:** 2006 Jan – 2006 Dec

**Client:** Gjensidige Forsikring

Bård was one of the driving forces for showing the effect of using Spring and Maven inside the IT–department of Gjensidige.

We acheived:
– Installation of developer software reduced from 5 days, to 10 minutes.
– Developers may easily share code. Developers can easily help each other as we have one way of organizing software and code.

**Technologies/Methods:** Spring, Spring MVC, Maven, Scrum


## Senior Architect and developer

**Period:** 2005 Jan – 2005 Aug

**Client:** Gjensidige – Introduce Spring MVC i Ceta

The caseworker application Ceta needed new framework to simplify development and testing.
Bård introduced:
– Spring
– Spring MVC
– Spring Remoting
– Maven

Hibernate was used for a while, but then taken out again.

**Technologies/Methods:** Spring, Spring MVC, Spring Remoting, Maven, Java, Domino

**Community Leader**

**Period:** 1992 Feb – 1994 Feb

**Client:** IAESTE

Exchange of internships for students.
The job was to organize and motivate 15 students. We worked to obtain internships locally.
These jobs were then offered students abroad. Norwegian students then got the opportunity to work out.

**Technologies/Methods:** Win 3.1 :–)

# Workplaces

**Senior Architect, IoT Evangelist, Digital Transformation**

**Period:** 2019 Jul – ongoing

**Workplace:**  Entra ASA

 Senior architect and developer. Lead on IoT initiative in Entra. Focusing mostly on Digital Transformation and enabling the Real Estate industry to move forward into automating business processes.

**Senior Architect, IoT Evangelist**

**Period:** 2016 Apr – 2019 June

**Workplace:** Capra Consulting

Senior architect and developer. Lead on IoT initiative in Capra. Focusing on mostly on IoT and Machine Learning projects.

**Senior Architect, Mentor**

**Period:** 2013 Feb – 2016 Mar

**Workplace:** Altran Norway

Is starting a new department, Software Engineering. Focus on reducing the time from idea to  production. Higher degree of automation, lower project cost.

**Manager Architecture**

**Period:** 2012 Jan – 2013 Jan

**Workplace:** Telenor/Canal Digital

Develop SOA architecture for Canal Digital Satelite.
Working with Pakistani developers, and responsible for multinational developer competency.

**System Area Architect Mobile Value Chain**

**Period:** 2009 Jul – 2012 Jan

**Workplace:** Telenor Norway

Strategic architect responsible for all customer and partner applications in the mobile value chain in Telenor.

System Architect, Senior Developer Java. CTI–Mobile

Mentor for fresh developers. Academic pushing for faster and more efficient utvikling.Systemarkitekt, Senior Developer Java. CTI–Mobile

Open Source and Commuity– evangelist internally and externally for Telenor.

Telenor global CRM strategy: Engaged in CRM strategy at Telenor globally through Telenor Contest Program

### Senior Developer, Architect, Mentor

**Period:** 2007 Jan – 2009 Jun

**Workplace:** Objectware

Central Objectware its focus on SOA and Enterprise architecutre. Establishes courses, and concepts that are still ahead of our time. Mentor for fresh developers. Academic pushing for faster and more efficient development.

Open Source and Commuity– evangelist

### Solution Architect, Senior Developer, Mentor

**Period:** 2003 Aug – 2006 Dec

**Workplace:** Gjensidige Insurance

System Responsibility and solution architect for processing application –CETA.

The caseworker application within the person.

Evangelist for Maven, Spring and more effective Java development.
Academic Responsibility for Lotus Domino.

Worked on Banking, Insurance and Financial Solutions in Gjensidige Nor.

### Senior Consultant Java and Lotus Domino

**Period:** 2000 Jul – 2003 Jul

**Workplace:** Entra Data, Entra Finance

Senior Consultant in the fields of Notes / Domino, Java and Financial Applications.

Entra Data supplied leasing motor for Car Finance at Nordea, Olympia Financial and Scania Finance etc.

### Developer, Operations and Customer Care

**Period:** 1996 Jun – 2000 Jun

**Workplace:** IBM

Responsible for applications, Java and Domino. Remote operation of AIX and Domino.
Customer with remote operation of the server and the PC.

### Community Leader

**Period:** 1992 Feb – 1994 Feb

**Workplace:** IAESTE–Stavanger

Exchange of internships for students.
The job was to organize and motivate 15 students. We worked to obtain internships locally.
These jobs were then offered students abroad. Norwegian students then got the opportunity to work out.

# Education

### Bachelor/Cand. Mag

**Period:** 1996 Jul – 1996 Jun

**School:** Lillehammer University Centre

Personell development and leadership
Avionicsenginerring

**Personell development and leadership**

    **Period:** 1995 Aug – 1996 Jun

    **School:** Lillehammer University Centre

    Personell development and leadership

**Compyuter of Sience– Avionics**

    **Period:** 1991 Aug – 1995 Jun

    **School:** Stavanger University Centre

    Computers in aeroplanes. Focus on security and real time computation.

# Other

**Teaching Spring**

- Co–teacher for Spring, Spring MVC and Spring WebServices in 2007. Topics covered included: – Spring, Spring MVC, Spring ORM/Hibernate, Spring Remoting, Spring Webservices

**Language**

- Norweigen, English