Daniël Bos (远洋)

Personal Data

Place and Date of Birth:	Rhenen, The Netherlands	24 November 1979
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Professional Profile

I am a professional Software Engineer, with a rich background in both (web) backend development and low-end mobile platform development. Over the years I have consistently received great to excellent performance reviews.

I believe in continuous self-improvement, and spend much of my free time on study and various research projects. Furthermore, I'm active on various open-source and emerging technologies mailinglists.

My greatest professional skills are problem solving, finding creative solutions and a strong drive for simple, elegant and clean code.

Work Experience

2014 — **Principle Engineer at Microsoft, Beijing, China**

While employed at Microsoft Devices Group, I continued to lead Java UI development for Asha smartphones. Most notably we managed to port the new full-touch Asha OS to a premium ITUT form-factor well within schedule.

Shortly before transitioning to Microsoft, I was promoted to be the domain owner of Java UI and various other Java APIs. In that capacity I review and sign off each code change. This includes doing code reviews, API design, architecture reviews and feature-merge reviews.

Besides Java UI for Asha, I've worked on the highly successful AOSP (Android) based Nokia X series of devices, organized various internal Java related courses and trained the team in the use of modern test-driven development and refactoring practices.

2012 - 2014 — **Principle Engineer at Nokia, Beijing, China**

As the Principle Engineer in Java Platform software for the Asha smartphone product line I lead a team of highly skilled professionals that develop and support all UI related areas of the Java platform.

Besides these responsibilities I review code commits for the entire Java area and coordinate with teams globally. I have received consistent great to excellent performance reviews, including honors for my contributions on the before-schedule release of the Asha 501 in early 2013.

2008 - 2011   Senior Engineer & Tech Lead at INDENTY, Enschede, The Netherlands

At Indenty I was responsible for the following:

- √ Set up the Research & Development department and managed the team on a day-to-day basis;
- √ Trained and supported the software engineers;
- √ Instituted an Agile work process, which helped reducing the time-to-market;
- √ Implemented standard Issue Tracking, Continuous Integration, Build and Dependency Management systems, thereby increasing transparancy and communication.
- √ Designing and implementing a web-scale analysis system, which has become one of the core money-making platforms;
- √ Researching and implementing various algorithms to distill new and actionable information from data that was already being collected;
- √ Developing systems to generate and deploy optimized websites for thousands of customers, by which we could service more customers with fewer people.

2009   Senior Engineer at INNOVADIS, Enschede, The Netherlands

During my employment at Indenty BV, I briefly did some contracting work at Innovadis, to relief their rapid growth. I worked on projects such as:

- √ Development of corporate websites;
- √ Development of a self-service web portal for a healthcare provider, allowing third-parties to offer services and patients to acquire and schedule these services;
- √ Development of a highly available back-end for a distributed embedded system, used by various local governments.

2005 - 2007   Software Engineer at GLADIOR, Enschede, The Netherlands

Accomplishments:

- √ Implementation of, and migration to, a new CRM system, greatly improving the workflow for Sales and Marketing;
- √ Selection and deployment of new accounting software;
- √ Development of bridging software between CRM, accounting, sales and back-end systems, which resulted in up-to-date information for all employees.

2004 - 2006   Lead Developer at HUISMAKELAARS, Gronau, Germany

As the lead developer, I:

- √ Designed the architecture of the system, from high level down to software and database architecture;
- √ Developed the corporate and consumer websites, working with a designer on the graphics and interactions;
- √ Developed various APIs and connectors for real-estate agencies, which enabled the company to tap into new revenue streams;
- √ Developed a payment system directly linked into the main banks, resulting in an increase of paying customers;
- √ Developed algorithms for assisting consumers in searching the offerings;
- √ Developed supporting systems used by administrators and help-desk personnel, greatly reducing the management costs of the system.

PROFESSIONAL COURSES

2014   Modern C++11

This follow-up course to the Advanced C++ course covered the following topics:

Auto types; Lambdas and capturing; decltype and declval; Variadic templates; constexpr; Range-based loops; Uniform initialization.

2014   Android Security

This intensive hands-on training covered the following topics:

Secure coding; Linux kernel; Android security; Application security; Cryptography; Reverse engineering; SQL Injection, XSS, Overflows; ASLR, XN, RELRO; Improper use of security.

2014   C++ Boost Library

This introductory course covered various popular packages within the Boost library, including:

Optional; ProgramOptions; Any; Signals2; FileSystem; Bimap; Units.

2013   Advanced C++

This intensive, hands-on course covered many of the advanced C++ language features including:

Templates; Smart Pointers; Shared Objects; Lambdas; Standard Containers; Standard Algorithms; Move Semantics; PImpl pattern; Exceptions.

2013   Haskell Fundamentals

An introduction level course into Haskell, covering:

Data types; Higher order functions; Type classes; I/O; Modules and Packages; Standard Collections; Monads; Libaries.

2011   Machine Learning

STANFORD UNIVERSITY, *Online course*

2011   Database Theory

STANFORD UNIVERSITY, *Online course*

2010 - 2011   Mandarin Chinese Language Course

COMMUNICATION UNIVERSITY OF CHINA, *Beijing, China (*中国传媒大学*)*

EDUCATION

2002 - 2004   Philosophy of Science, Technology & Society

TWENTE UNIVERSITY, *Enschede, The Netherlands*

To broaden my horizon I studied Philosophy of Science, Technology & Society, at one of the foremost Research Universities in The Netherlands.

Subjects: Classic Philosophy; Logic; Ethics; Academic Writing; History of Science.

1999 - 2002   Bachelor of Science in Computer Engineering & Embedded Systems

SAXION UNIVERSITY, *Enschede, The Netherlands*

Thanks to my sound background, I was able to complete the four year bachelor program within three years.

Subjects: Software architecture, design and algorithms; Software processes (such as Waterfall and RUP); Object oriented programming (Java and C++); Web development (PHP, HTML, CSS, JavaScript); Database design and management; Robotics and Embedded systems.

1995 - 1999 Computer Hardware & Embedded Systems
TECHNISCH COLLEGE, *Ede, The Netherlands*

Technisch College Ede is one of the foremost vocational education institutions in The Netherlands. Here I studied as an electrical engineer, with a focus on Computer Hardware and Embedded Systems. I studied subjects such as:

Subjects: Procedural programming (Pascal, C, x86 Assembler); Object Oriented programming (Pascal, C++); Design of computer hardware; Design of analog circuits.

As my graduation project I designed and implemented (both hardware and software) an ISA-card to monitor a phone-system for billing purposes, to be used in e.g. hotels.

LANGUAGES

DUTCH:	Mothertongue
ENGLISH:	Fluent
GERMAN:	Basic Knowledge
CHINESE:	Beginner

TECHNICAL SKILLS

DESIGN:	Requirements, Architecture, UML, Design Patterns, Refactoring, Prototyping	Expert (10 years)
DEVELOP:	Eclipse, SVN, Git, Hudson/Jenkins, Unit Testing, Automated Builds, Issue Tracking, Code Reviews	Advanced (6 years)
JAVA EE:	JSF, Spring Framework, Maven, Ant, REST, JDBC, Hibernate, Dependency Injection, Apache HttpClient, jUnit	Expert (8 years)
JAVA ME:	CLDC, MIDP, Standard JSRs, KNI native code, Java VM, Porting and Implementation, UI, Layout	Expert (3 years)
PROGRAM:	Java, C++, C, Scheme	Expert (6-10 years)
	PHP, Python, Perl, Haskell	Intermediate (4-8 years)
ANDROID:	Applications, Framework, Client-Server Applications	Intermediate (4 years)
WEB:	XML, XHTML, CSS, JavaScript, AJAX, jQuery, Apache HTTP server, CGI, RDF, Microformats	Expert (10+ years)
DATABASE:	Microsoft SQL Server, MySQL, SQLite, CouchDB, Database Design, Stored Procedures, Performance Tuning	Advanced (10 years)
PLATFORM:	Linux (Debian), Microsoft Windows Server, OpenBSD, Chrome OS	Advanced (10+ years)

RECOMMENDATIONS

INDENTY Tom Visser, Managing Director

This letter is my personal recommendation for Daniël Bos. I have been Daniël's immediate supervisor for several years, first at Gladior and later at Indenty. Demonstrating great skill and a strong dedication, he has moved quickly from Medior level Engineer to Senior Engineer at Gladior. When Indenty was founded, I entrusted him with the responsibility of setting up the Research and Development department and the day-to-day management as a Tech Lead.

In his role as a Tech Lead he has researched various development processes and adapted the Scrum proces to our needs. Besides the development process, he has managed to standardize the programming languages, the build system, the testing procedures and the frameworks that are used, which has resulted in much more confidence in the software that is being developed.

Daniël leads by example and many people here find his enthusiasm and dedication both inspiring and motivating. He has managed to create strong cohesion within his department by encouraging his co-workers to take responsibily for their projects and promoting an environment of sharing information and helping each other out. His efforts have created a happier and more productive team.

INDENTY Marcel Brandriet, CEO

At Indenty we believe that to support rapid innovation employees should have the freedom to carve out their own job description. In the years I have worked with Daniël Bos, I have seen him grow as a Senior Software Engineer, taking over more and more responsibilities as a Tech Lead. Some of these include the profesionalization of the Research & Development department, getting the entire team onboard to follow an Agile development process, organizing training and certification sessions and helping prove the profitability of the department.

Daniël is highly respected by his co-workers for his willingness to help anyone anytime he can. He is a creative thinker, always challenging the organization with new solutions to problems and ideas for new products and services. He is very well organized, diligent, easily reachable, always on time and takes initiatives that go beyond the parameters of his job.

GLADIOR Peter Schinkel, CEO

Daniël is a well respected software engineer, researcher and Tech lead. I worked with him at Gladior and Indenty. In both companies his skills were highly appreciated among colleagues and helped us to become one of the leaders in search engine marketing in the Dutch market. He did a great job in linking our CRM, accounting and back-end systems.

Besides that Daniël is a great person to work with who always brings interesting insides into a discussion!

COMPANY PROFILES

INDENTY *Indenty is a company that provides standard tools and systems on the international market, for detailed analysis of websites & link-graphs and for management of Search Marketing campaigns (both optimization and advertising) via a large network of partners.*

INNOVADIS *Innovadis is a company that designs, develops and implements webshops, large corporate websites and other internet solutions, mainly using the Microsoft .NET stack.*

GLADIOR *Gladior is one of the founders of Search Marketing in The Netherlands. They provide both optimization and advertising solutions to a wide range of customers.*

HUISMAKELAARS *Huismakelaars is a web start-up that provides its customers with options to independently sell or buy real-estate, both nationally and internationally.*

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