

# İLYAS ALPER KARATEPE

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## PERSONAL INFORMATION

Birth Date and Place : 15.11.1981, Denizli  
Military Service : Completed  
Marriage Status : Married  
Foreign Language : Fluent in English

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## SUMMARY

I have 10+ years of software engineering experience (mainly in design and implementation) in Telecommunication industry and R&D activities.

My particular experiences are in Java, Middleware & Integration Software, Big Data, Software Engineering Management, Statistical Analysis & Data Mining, Web Programming and Network Management Systems.

Currently, I am managing the Alternative Channels solution department in Turk Telekom Fixed CRM & Sales group.

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## EDUCATION

<b>MSc in Software Engineering</b> Boğaziçi University, İstanbul	2013 - ...
<b>BSc in Electrical &amp; Electronics Engineering</b> Hacettepe University, Ankara	2000- 2004
<b>Erbakır Science High School</b> Denizli	1997- 2000

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## TECHNICAL BACKGROUND

**Programming:** Java, C++, Matlab, Python, Web Services, JMS, JMX, HTML, JSP, JSF, Ajax, SQL, JUnit, XML, XQuery, XSLT, Shell scripting.

**Frameworks:** Spring, Hibernate, J2EE, J2SE.

**Tools & IDE:** Eclipse, OEPE, JDeveloper, TOAD, Code::Blocks.

**Design & Concepts:** Modeling with UML, OOD, eTOM, SID, AIA Standards, Schemas, Agile Development, Solutions Architecture, Technical Documentation, Quality Assurance.

**Platforms:** Weblogic, Oracle Service Bus, Oracle SOA Suite, IBM DataPower, Tomcat.

**Environments:** Windows, Linux ,Unix.

**Database:** Oracle, MySQL.

## WORK EXPERIENCE

### **TURK TELEKOM GROUP, İstanbul** **Alternative Channels Manager**

**May 2015 - Present**



Managing teams developing following Turk Telekom Fixed CRM & Sales Solutions:

- Self Service Applications (OHMs)
- Dealer and Other Licensed Operator Portals
- Loyalty Portals
- Alternative Channels

### **AVEA, İstanbul** **R&D Projects Coordinator**

**December 2014 – May 2015**



- Responsible for
  - Leading Avea R&D Center Administrative activities,
  - Guiding and mentoring the companies in Avea incubation center,
  - Managing software development team in AveaLabs,
  - Dealing with AveaLabs R&D collaborations with universities, other companies and institutions,
  - Managing R&D projects pursued by AveaLabs, my particular interest is about SDN (Software Defined Networks) concept as my thesis topic,

### **AVEA, İstanbul** **AveaLabs Principle Software Engineer**

**July 2013 – December 2014**



- Working on following R&D projects funded by National Funding Agency (Tubitak). These projects are cooperated with qualified academicians from prominent universities such as Boğaziçi, Bilkent, METU, and ITU.
  - ✓ Churn Analysis Based on Big Data (Tübitak project cooperated with Bilkent University). This project aims to score Avea customers' churn probability. Regression algorithms are applied on data stored in Hadoop.
  - ✓ Flow Size Distribution Analysis (Tübitak project cooperated with Boğaziçi University). This project aims to estimate flow size distribution of Avea core network traffic in real-time. Network packets flowing through Gn interface are captured and grouped into flows, and then it is visualized after estimating the size distribution. It will be used as a step for application recognition.
  - ✓ Small Cell (Femto) Application Infrastructure Development (Tübitak Project with Incubation Center Company). This project aims to provide a platform for Femtocell customers to develop/maintain their Femtocell applications.
  - ✓ Indoor Localization with RF Fingerprinting (Tübitak Project with YITU and GYTE). This project aims to identify location of Avea customers in indoors with a maximum 4 meters error rate. RSSI values are collected with a simcard application and then the location of the customer is identified by using supervised algorithms.
- Leading BigData Analysis on Hadoop Cluster with Avea CDR Data and development of a web application to visualize the output of big data analysis using Google Maps APIs.
- Adminstrating Atlassian products such as Jira, Confluence, Crowd for SDLC process management and Bamboo and Stash for continuous integration.

- Managing social media analysis projects developed at Bilvea in collaboration with Bilkent University. 3 different social media analysis projects are ongoing at Bilvea which are using Facebook, Twitter and Foursquare data.

AVEA, İstanbul

April 2010 – July 2013

#### Middleware Development Senior Specialist



- **Middleware Developer** and legacy systems development manager roles in UNICORN project (Order management with Telaura product of Etiya).  
Design and implementation of business process flows in BPEL and middleware services in OSB with respect to business requirements. Implementation of spring web services that is called for enrichment of request and response messages used in order fulfillment processes.  
Keep track of development on legacy systems.
- **Middleware Developer** and test manager roles in Order Management project.  
Analysis, design and development of middleware service and processes, planning unit and integration test strategies, implementing integration tests, preparing service, process, test and rollout to production documentations.
- **Middleware Developer** in BSCS-IX SOI Integration project.  
The aim of the project was replacing Middleware-BSCS interface which consist of many CAS commands with new BSCS-IX SOI layer which is based on web service technology. My responsibility was negotiating with vendor on new interface design for maintaining SOA principles followed by Middleware team. Preparing design documents after negotiation and implementation of required development in middleware.
- Using IBM RTC and RRC tools for software development team collaboration to manage all aspect of our work such as plans, tasks, revision control, build management, documentation and reports. HP-PPM is also used for task management.

ALCATEL-LUCENT, İstanbul

September 2007 – April 2010

#### Senior Software Engineer



- **Solution Architect** in FMS (Femto Management System) project.  
For remote management of Femto devices with HDM (Home Device Manager) application which allows remote management of devices communicating with TR069 protocol, designed required function, action, policy and device types in HDM.
- **Software Engineer** in HDM application integration projects developed for TTNET, KoçNet and Superonline companies.  
Supported sales team on-site while introducing HDM product to customers in terms of technical specifications on behalf of HDM product expertise. Analysis and design of integration layer between HDM and customers' OSS&BSS systems with customer IT teams, defining scope of work documents. **Implementation of integration layer with multi-threading Java programming techniques.** Executed Junit unit tests with generated mocking services (**SOAP-UI**) used for customer IT systems simulations. Deployment of application on customer side and giving full support on production.
- Supported Vodafone-Czech on-site (one week) for a web application written in Java and running on Tomcat. Application was retrieving messages from configured servlets and sending the message to Tibco queues after making required transformation.

VODAFONE, İstanbul

January 2005 – August 2006

**Software Developer**



- I involved mainly in developing VAS (Value Added Services) applications. SMS applications were designed as standalone Java applications running on a homemade framework for distributing and managing SMS traffic. Web applications had JSP/Servlet web forms on presentation tier, and a strong object model that implemented in Java on business tier, and Oracle database on the data tier.
- As a result, I had a chance to develop applications for a big mobile operator who has a very huge traffic. In order to handle network load, we had to develop multi-threaded and high performing applications.
- Following technology and tools were used in our work: C++, MS-SQL and Visual Studio for IVR; Java, XML, Oracle, PL-SQL, TOAD for SMS; HTTP, Web Services, J2EE, HTML, Axis, Tomcat, WebSphere, JSP, Eclipse for WEB and other special projects.

TÜRKOM, Denizli

July 2004 – December 2004

**Software Developer**

- Developed enterprise web applications with Microsoft technologies. Learned SQL and some software engineering basics. Worked on an ERP projects developed for textile factories.

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**TRAINING & CERTIFICATION**

- 7 Habits of Highly Effective People – FranklinCovey, 2 days (October 2013)
- Strategic Thinking and Planning – Paradigma Consultancy, 2 days (July 2013)
- **TM Forum Career Certified Business Development Manager**  
November 2012 ([www.tmforum.org/CareerCertified](http://www.tmforum.org/CareerCertified))
- Emotional Intelligence – Ash Baycan, 2 days (December 2012)
- Problem Solving and Decision Making (June 2012)
- Oracle Administration & Advanced PL-SQL (Bilginç IT Academy 2009, one week)
- Advanced Java (Koç Bryce 2005)

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**PUBLICATIONS**

**An offloading platform using multiple attribute decision making for heterogeneous networks**

Signal Processing and Communications Applications Conf., 2015 23th - IEEE

Date of Conference: 16-19 May 2015

**Anomaly Detection In Cellular Network Data Using Big Data Analytics**

European Wireless 2014, 20th European Wireless Conference

Date of Conference: 14-16 May 2014

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**HONORS & AWARDS**

**2nd degree in Big Data Challenge, Telecom Italia**

Participated to Telecom Italia Big Data Challenge competition as AveaLabs team in Application Development category. We were one of the top ten finalists among 652 teams from 20+ different countries and achieved 2nd degree with our Tourist Information application using Twitter data in application development track.