To Whom May It Concern,

I am a senior software engineer (with management experience) have 7 years experience. I would like to continue my career in an academic enterprise as yours because of my passion for R&D work. I believe I am the one who has the skill set and the experience you're looking for.

I have strong programming and data analysis skills and familiarity with Python, Java, C#, Matlab and Linux shell programming and also have Unix system administration skills. Details could be found in my CV.

I also have very familiar to work in an academic environment and with medical professionals.

Since my Master thesis research topic is "Tumor Modeling", I have a good research background on systems biology, cancer, chemotherapy and radiotherapy. Especially on "Non-Small Cell Lung Carcinoma".

I am able to work with other people in a team and personal work. I am able to work under pressure and be a target to me.

Please call me on my cell phone: +90 555 697 50 46 to set up an interview at your convenience if you'd like to talk to me. Thank you for considering my application and cover letter. I'm really looking forward to meeting you.

Yours sincerely,

Serbulent UNSAL

Serbulent Unsal

Citizenship : Turkey ▪ Date of birth : 13 November 1980

Senior Software Engineer with 7 years Experience

Contact

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Profile

Experience as	System Administrator, Analyst, Software Expert, Team Leader, Project Manager
Objective	I have been working of different areas and positions in IT sector. My focus is developing high quality, low cost, agile software. My career is mostly in medical informatics enterprises. I am also trying to continue achieve Master degree in Medical Informatics at M.E.T.U
Main areas of interest	Tumor Modeling, Decision Support Systems, Medical Information Systems
	Software Development Methodologies, Agile Development, OOP, AOP, SOA, Data Mining, Design Principles and Design Patterns, Software Quality, Web Services & SOA, Restful Web Services, Continuous Integration Communication, Team Work, Motivation towards Software Development
Specialties	Medical Information Systems, Medical Information Systems Integration, HL7, Spring Framework, Restful Web Services, Java, Python, Software Testing

Key Skills

Proficient or familiar with a vast array of programming languages, concepts and technologies, including:

Java, JEE Spring Framework, Spring Data, Hibernate, JPA, JUnit, Tomcat	Python, PyQT, Tkinter, C#, Matlab Oracle, MySQL, GNU/Linux, Windows	JavaScript AJAX, REST, JQuery, ExtJS	Tumor Modeling, Machine Learning, Data Mining, Decision Support Systems

Education

2010 to 2013	**Master in Medical Informatics (2013 - Expected)**
	Middle East Technical University, Ankara, Turkey
Selected Courses	Oncological Modeling, Machine Learning, Data Mining, Knowledge Management, Technology Acceptance
2000 to 2007	**Bachelor Statistics and Computer Sciences**
	Karadeniz Technical University, Trabzon, Turkey

Work Experience

Asya Software Services   **June 2011 - Present**
Trabzon, Turkey

Project Manager

Asya Software Services is a Start-Up Company focuses on Healthcare Informatics. As a Project Manager of a Start-Up Company, I act many roles like Project Manager, Business Development Manager, System Architect, Software Engineer and System Administrator. Projects which I work in this position are below;

- ✓ *Analysis, Design and Coding of Research and Development Project "Chemotherapy Planning with Tumor Modeling for Non Small Cell Lung Carcinoma"* **(Active Project)**

Mission Includes;
  - Creation of Project Idea
  - Project's Technical Analysis with Consultant Physicians
  - Planning Project's Technical Aspects
  - Planning Project's Human Resources
  - Planning Project's Budget and Timeline
  - Designing Project's Software and Hardware Architecture Overview

Technology Includes;
  - Python&Tkinter for Coding Cellular Automata
  - FiPy Converting Diffusion Equation Solutions from Matlab to Python
  - Matlab for Solving Diffusion Equations
  - CUDA for Parallel Programming **(Planned)**

- ✓ *Design and Set-Up an Agile Software Development Infrastructure*

 Mission Includes;

  - Design of Development Environment
  - Identifying Software Quality Metrics
  - Installation and Administration of Redmine for Project Management and Issue Tracking
  - Installation and Administration Jenkins for Continuous Integration
  - Installation and Administration of Git for SCM

- ✓ *Business Development of a Decision Support and a Data Quality System for Regional Epidemics*

  Mission Includes;

  - Creation of Project Idea
  - Presentation of Project and Carry Out Negotiations with Ministry of Health of Turkey for Project Idea and Budget
  - Writing of Project Proposal Document due to Ministries' Standards

✓ *Analysis and Design of a Decision Support and a Data Quality System for Regional Epidemics*

   Mission Includes;

   - Project's Technical Analysis with Consultant Physicians
   - Planning Project's Technical Aspects
   - Planning Project's Human Resources
   - Planning Project's Budget and Timeline
   - Designing Project's Software and Hardware Architecture Overview

✓ *Analysis and Design of a Usability Oriented Hospital Information System Interfaces and User Stories.*

Mission Includes;

   - Project's Technical Analysis with Consultant Physicians
   - Project's Project Technical Aspects

✓ *Analysis, Design and Coding a XML based Restful Web Service for Budget Management System of Hospitals* **(Active Project)**

Technology Includes;

   - Java as Platform
   - Jersey as JAX-RS implementation
   - Spring Framework for IOC Container and AOP Platform
   - Spring-MVC for MVC framework
   - JPA for ORM
   - Oracle Database for Database Server
   - Tomcat for Servlet Container
   - JQuery with Ajax and Json for UI Programming
   - Restful Web Service Architecture with Spring-MVC
   - JUnit for Unit Tests
   - Git for Source Code Management
   - Maven for Managing Dependencies

✓ *Analysis, Design and Coding an Integration Client of Hospital Information System with National Health Databank Services* (Health-Net)

Technology Includes;

   - .Net as Platform
   - C# as Development Language
   - WSE 3.0 as Web Service Client
   - Oracle Database for Database Server
   - HL7 version 3 as Integration Standard

✓ *Analysis, Design and Coding an Integration Client of Hospital Information System with National Health Databank Services (Daily Summary of Hospital Operations*) **(Active Project)**

Technology Includes;

   - Java as Platform
   - Spring Framework for IOC Container and AOP Platform

- Spring-MVC for MVC framework

- JPA for ORM

- Oracle Database for Database Server

- Tomcat for Servlet Container

- JQuery with Ajax and Json for UI Programming

- Restful Web Service Architecture with Spring-MVC

- JUnit for Unit Tests

- Git for Source Code Management

- Maven for Managing Dependencies

- Redmine for Project Planning and Tracking

- Jenkins (a.k.a Hudson) for Continuous Integration

Akgun Software Services   **June 2009 – June 2011**
Ankara, Turkey

Software Expert

Akgun Software Services is one of the biggest Healthcare IT companies of Turkey. Company also gives software services in Azerbaijani and Kazakhstan. Projects which I work in this position are below;

✓ _Analysis and Development of an IHE Compatible Radiology Information System._

Project Includes;
- Scheduling, Integration, Stock Control, Charging, Patient Demographics,

 Reporting, Order Management, Administration Modules

- Custom HL7 Message Rule Validation Engine

- Custom UI framework based on ExtJs

- IHE SWF and PIR profiles (Radiology Domain)

Technology Includes;
- Java as Platform

- Spring Framework for IOC Container and AOP Platform

- Spring-MVC for MVC framework

- Hibernate for ORM

- Oracle Database for Database Server

- Tomcat for Servlet Container

- Groovy for Scripting Works

- ExtJs with Ajax and Json for UI Programming

- Restful Web Service Architecture with Spring-MVC

- HL7 v2.3.1

- DICOM (with support of PACS Team)

- JUnit for Unit Tests

- SVN and ClearCase for Source Code Management

- Maven for Managing Dependencies

- Redmine for Project Tracking

- MS Project for Project Planning

TUBITAK - UEKAE - Pardus Project   **November 2007 – June 2009**
Kocaeli, Turkey

Test Team Leader

Pardus project is national GNU/Linux distribution of Turkey which is funded by The Scientific and Technological Research Council of Turkey (TUBITAK). It is a Linux from scratch distribution and has approximately 200.000+ users all around the world. Projects which I work in this position are below;

- ✓ *Managing Test Team, Creating Test Procedures, Developing Test Tools.*

   Technology Includes;
   - Pardus Linux with 2000+ Software Packages
   - Python for Writing Test Tools
   - PyQT for UI for Test Tools
   - SVN for SCM

Karadeniz Tecnical University   **January 2005 – June 2007**
Medical Sciences Faculty Medical Informatics Department   **(Part-Time)**
Trabzon, Turkey

Programmer, System Administrator

Karadeniz Tecnical University Medical Sciences Faculty Medical Informatics Department is one of few medical informatics departments in Turkey. It focuses on research for next generation health services. Department also gives IT services to Faculty. Projects which I work in this position are below;

- ✓ *Installation and Administration of Web, Database and E-Mail Servers (300+ users)*

   Technology Includes;
   - RedHat Linux for Operating System
   - Apache for Web Server
   - MySQL for Database Server
   - Sendmail for Mail Server

- ✓ *Development of Web Site and Content Managment System Architecture of Medical Information Department.*

   Technology Includes;
   - PHP for Backend
   - Javascript/HTML for UI
   - MySQL for Database Server

✓ *Development of Academic Publication Management System*

Technology Includes;

    - Ruby for Backend

    - Ruby on Rails for MVC Framework

    - MVC Architecture

    - MySQL for Database Server

✓ *Development of Internal Student Information Management System*

Technology Includes;

    - Java as Platform

    - Java Server Faces for UI

    - Oracle ADF for JSF Framework

    - Oracle Toplink for ORM Mapping

    - Oracle for Database Server

    - MVC Architecture

    - OOA/D

Activities and Interests

Science	Latest developments in quantum physics and genetics
Traveling	United Kingdom, France, Italy, Spain
Sports	Jogging, Tennis, Swimming, Aikido

Languages

Turkish (native)	**English** (fluent, TOEFL (IBT): 92)	**German** (Beginner)

References

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