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# Zekai Demirezen

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## Work Experience

**2006 Agu. -2007 May.      Alcatel-Lucent      Istanbul Turkey-  
Antwerp Belgium**

*J2EE Software Developer*

- Telecommunication Projects: Stats Collector (SC) that collects MIB parameter values from ASAMs with SNMP protocol. International Application, Belgium, Spanish and Turkish Alcatel developers take part in SC development.

**2005 Apr. -2006 Agu.      AkSigorta(Insurance Company)      Turkey**

*J2EE Software Developer*

- ETrafik Project: Web-Based Insurance Application project has been developed with Struts framework on J2EE platform. Application is deployed on IBM WAS application server. Currently over 100 Aksigorta agents are using ETrafik application over internet.

**2002 Nov. -2005 Apr.      Yapi Kredi Bank      Turkey**

*J2EE Software Developer*

- Responsible for developing banking applications
- Member of a R&D team that develops a business framework for the banking applications.

Projects (Java development)

- PIM: Platform Independent Banking Framework: OO framework that contains business and non business functionality, such as authorization, and authentication, for banking applications.
- e-Sube: is the J2EE project about transforming OS/2 YKB Branch clients to Java applet Clients.

**2000 May. -2002 Oct.      Mobilnet      Turkey**

*PalmOS Software Developer*

- Responsible for developing PalmOS applications for handhelds (PDA's) for companies that have mobile online or offline computing needs.

Projects (Java,C/C++ development)

- Presell and Hotsell application for drugs and food distributors.
- Palm Sample Companion project: This project is for an international Company that collect soils for analysis. Sample soil data is collected and stored by using Palm devices.
- Insurance applications for insurance agents.
- Mobile application for managers to follow monthly transactions of their company.
- R&D project: UI and Database Frameworks for easy and reusable Palm OS Application development with C++ language

## Education

### 2007-Present University of Alabama Birmingham AL-USA

- *PhD Student*, Computer and Information Science

### 2001-2004 Ege University Izmir Turkey

- *MS, Computer Engineering* GPA: 3.4/4.00

Master Thesis: Application of Design Patterns and Tool Support

In this thesis, the basic components of model-driven software development are studied. Within this context, literature is surveyed for model transformations and for developing pattern meta-models. Based on this survey, an engine that transforms models according to target design pattern definitions is developed.

### 1996-2001 Ege University Izmir Turkey

- *BS, Computer Engineering* GPA: 3.2/4.00

Thesis: Application of an e-business system with using J2EE technologies.

A Sample application, Hotel Reservation System is developed using Servlets and JSP Pages. Its architecture is based on MVC structure.

## Computer Skills

- Programming Languages : Java, C/C++.
- Application Development Environments: IBM WSAD, Eclipse, IntelliJIDEA, Visual Age for Java, Metrowerks CodeWarrior for PalmOS, Microsoft Visual Studio, Visual J++.
- Tools: Matlab, Rational ClearCase, Rational Rose, XDE.
- Technologies: J2EE, EJB, Struts, UML, SQL, XML, XMI, XSLT, JSP, Servlet, Ajax, JavaScript, Hibernate, ANT, Maven.

## Publications

- Zekai Demirezen, Yu Sun, Jeff Gray, and Frederic Jouault, "Supporting Tool Reuse with Model Transformation," *International Conference on Software and Data Engineering (SEDE)*, Las Vegas, NV, June 2009, pp. 119-125.
- Yu Sun, Zekai Demirezen, Marjan Mernik, and Jeff Gray, "Model Transformations Require Formal Semantics," *Workshop on Domain-Specific Program Development (DSPD)*, held at *GPCE 2008*, Nashville, TN, October 2008.
- Yu Sun, Zekai Demirezen, Marjan Mernik, Jeff Gray, and Barrett Bryant, "Is My DSL a Modeling or Programming Language?" *Workshop on Domain-Specific Program Development (DSPD)*, held at *GPCE 2008*, Nashville, TN, October 2008.
- Yu Sun, Zekai Demirezen, Frédéric Jouault, Robert Tairas, and Jeff Gray, "A Model Engineering Approach to Tool Interoperability," *First International Conference on Software Language Engineering (SLE)*, Springer-Verlag LNCS 5452, Toulouse, France, September 2008, pp. 178-187.
- Ritu Arora, Yu Sun, Zekai Demirezen, Jeff Gray. "Profiler Instrumentation Using Meta-programming Techniques," in the ACM Southeast Conference 2008, (ACMSE 2008), Auburn, AL, March 2008.
- Zekai Demirezen, Yasemin Topaloglu, "A Refactoring Tool for Design Patterns with Model Transformations," *The 4th Nordic Workshop on UML and Software Modelling, NWUML06*, Grimstad Norway, 2006.

	<ul style="list-style-type: none"> <li>▪ Zekai Demirezen, Yasemin Topaloglu, "Tasarım Desenlerine Yönelik Model Donusumleri," II. National Software Engineering Symposium, METU, Ankara, Turkey, 2005.</li> </ul>
Professional Activities	<ul style="list-style-type: none"> <li>▪ Conferences/Workshops Attended <ul style="list-style-type: none"> <li>▪ International Conference on Software and Data Engineering (SEDE), Las Vegas, NV, USA, June 2009.</li> <li>▪ International Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA 2008), Nashville, TN, USA, October 2008.</li> <li>▪ Workshop on Domain-Specific Program Development (DSPD), held at <i>GPCE 2008</i>, Nashville, TN, USA, October 2008.</li> <li>▪ ACM Southeast Conference (ACMSE), Auburn, AL, USA, March 2008.</li> <li>▪ The 4th Nordic Workshop on UML and Software Modelling, NWUML06, Grimstad, Norway, June 2006.</li> <li>▪ II. National Software Engineering Symposium, METU, Ankara, Turkey, June 2005.</li> </ul> </li> <li>▪ Reviewer <ul style="list-style-type: none"> <li>▪ MODELS: International Conference on Model-Driven Engineering Languages and Systems (2009).</li> <li>▪ TOOLS: International Conference on Objects, Models, Components, and Patterns (2009).</li> <li>▪ DSL: IFIP Working Conference on Domain-Specific Languages (2009).</li> <li>▪ SLE: International Conference on Software Language Engineering (2008).</li> <li>▪ ECMDA: European Conference on Model-Driven Architecture (2008).</li> <li>▪ ACMSE: ACM Southeast Conference (2008).</li> </ul> </li> <li>▪ Service <ul style="list-style-type: none"> <li>▪ OOPSLA Student Volunteer (2008).</li> </ul> </li> </ul>
Teaching Experience	<ul style="list-style-type: none"> <li>▪ Teaching Assistant <ul style="list-style-type: none"> <li>▪ CS350 Automata and Formal Language Theory (Fall 2007,2008)</li> <li>▪ CS431 Distributed Computing (Fall 2007).</li> <li>▪ CS101 Fluency in Information Technology (Fall 2008).</li> </ul> </li> </ul>
Research Interests	Model-Driven Engineering, Domain-Specific Languages, Formal Semantics, Model Verification, Design Patterns, Aspect-Oriented Software Development, Software Reuse, Frameworks, Unified Process.
Memberships	Association for Computing Machinery (ACM) 2007 – present.
Educational Outreach	<ul style="list-style-type: none"> <li>▪ Blazer BEST Robotics Competition (October 11, 2008), Timekeeper.</li> <li>▪ UAB High School Programming Competition (2008, 2009), Volunteer Grader.</li> </ul>
Languages	Turkish, English.