

# SEFIK KANAT BOLAZAR, PhD

162 Cambridge Street  
Syracuse, New York 13210  
Phone: (315) 471-2636  
Email: [kanat2@yahoo.com](mailto:kanat2@yahoo.com)

## SUMMARY

Software engineer skilled in architecting, developing, unit testing and deploying stand-alone applications, with prior experience in client-server applications. Works well independently and as a strong team player. Learns new skills and adapts to working environments quickly. Accomplished at designing and developing software with long, stable life after deployment. PhD research: Partial automation of analysis, verification and visualization of Java software dynamic behavior. Screenshots: <http://kanat.net/verdicts/>

## PROFESSIONAL EXPERIENCE

### Teaching Assistant

SYRACUSE UNIVERSITY, Syracuse, NY **1991 – 1997; 2003 – 2013 (intermittent)**  
Department of Computer and Information Science

Taught courses including graduate level core requirement courses (such as Compiler Design, Operating Systems), conducted lab sessions and recitation sessions, held office hours. Additional responsibilities included preparing exams and maintaining a website for each course under my instruction.

### Software Engineer

**1998 – 2002**

MNIS – TEXTWISE LABS, Syracuse, NY  
Research and development company focusing on advance research in natural language processing.

- Was responsible for the full software development life cycle.
- Drafted coding standards and assured compliance through code reviews.
- Used JSPs, Servlets and EJBs in redesigning the internet user interface for “Medlink”, a medical information retrieval system as part of a phase II government project.
- Designed CORBA architecture for a natural language question answering system to create a central interface that allowed different software engineers to work independently for later seamless integration.
- Designed and led the development of a flexible general-purpose natural language processing system.
- Through refactoring, significantly improved the design, maintainability and performance of an Intelligent Agent system that evolves its agents.
- Developed web crawlers to gather freely available online medical documents for processing.

### Manager, Software Development

**1988 – 1990**

CAGDAS BILGISAYAR COMPUTER, Ankara, Turkey  
Small company founded with three partners to develop software and to build and sell hardware.

- Developed the first commercial accounting program written in C to be used in Turkey.
- Interacted with customers to evaluate their needs and align product design with their requirements.

### Control Systems Programmer, Intern

**Summer 1988**

LANDIS & GYR, Zug, Switzerland

- Programmed A/D and D/A converters to control large scale ventilation plants – heating, cooling and air conditioning systems used in hospitals, schools and airports. Internship lasted three months.

## EDUCATION

**PhD, Computer and Information Science** “VERDICTS: Visual Exploratory Requirements Discovery and Injection for Comprehension and Testing of Software” – Syracuse University, Syracuse, NY – 2013

**MS, Computer and Information Science** – Syracuse University, Syracuse, NY – 1993

**BS, Computer Engineering** – Middle East Technical University, Ankara, Turkey – 1990

## COMPUTER SKILLS

**Languages:** Java, C, C++, SQL, HTML, CSS3, JS, jQuery, Perl, PHP, Ruby  
**Technologies:** J2EE, OOA, OOD, Servlets, JSP, JDBC, Swing, JNDI, RMI, Web Services, REST, Spring  
**Operating Systems:** Linux, Windows, Unix (Solaris), Android OS  
**Tools:** Git, CVS, Ant, JUnit, Apache, Tomcat, Emacs  
**IDEs:** Eclipse, Visual Studio

## ACCOMPLISHMENTS / CERTIFICATIONS

- Sun Certified Web Component Developer for Java 2 Platform – March 2003 (score: 93%)
- Sun Certified Developer for Java 2 Platform – October 2002 (score: 95%)
- Sun Certified Programmer for Java 2 Platform – August 2000 (score: 95%)
- Attended Java One Conference – June 2001, March 2002
- Revived Syracuse Area Java Users Group, made six presentations – April to June 2002 (Design Patterns, Refactoring, XML processing, Web Services, Ant, New features in J2SE 1.4)

## PUBLICATIONS

S. Kanat Bolazar. VERDICTS: Visual Exploratory Requirements Discovery and Injection for Comprehension and Testing of Software. PhD Thesis, Syracuse University 2013.

Available online at [http://surface.syr.edu/eecs\\_etd/335/](http://surface.syr.edu/eecs_etd/335/)

S. Kanat Bolazar, James W. Fawcett. "Measuring Component Specification-Implementation Concordance with Semantic Mutation Testing" in Proc CATA 2011, 102-107.

Kanat Bolazar, James W. Fawcett. "VERDICTS: Visual Exploratory Requirements Discovery and Injection for Comprehension and Testing of Software" in SERP 2010.

S. Kanat Bolazar, James Fawcett. "Debugging with Software Visualization and Contract Discovery" in Proc SEDE 2006, 47-50.

Steven Morphet, James Fawcett, Kanat Bolazar and Murat Gungor. "Neural Net Analysis of the Propensity for Change in Large Software Systems" in Proc IJCNN 2006, 2606-2610.

James Fawcett, Murat Gungor, Arun Iyer, Kanat Bolazar. "Relationship Between Code Metrics And Change History" in Proc CATA 2005, 354-360.