

Paul Bilnoski

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Master of Science in Computer Science, Texas A&M University, 2006

Bachelor of Science in Computer Science, Texas A&M University, 2003

Areas of interest included Compiler Design, Computer Graphics, Web-enabled Applications and Information Systems, Programming Languages, and Software Engineering.

Main area of enjoyment is refactoring subsystems, using language features and well-known design patterns appropriately and to their fullest, and most importantly designing and building useful software, watching it become reality, observing its use for the improvement of the user's tasks.

It is more important for me to work with a good team and project I care about than a large pay check. I intend to work to get the job done for some benefit and not simply to be paid.

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### **Skills and Extra Experience**

Main experience and knowledge base is in Java

Some experience with C++ and Boost, and C#

Aging experience in web scripting

Experienced in managing and assisting in small groups of developers in academic and professional environments

Exposure to many languages, technologies, and tools, including the Eclipse SWT/RCP environment, JSP, XML.

Familiarity with development tools including Ant, CVS and other source code repositories, Wiki technology, Bugzilla and other defect tracking tools, Eclipse, Microsoft Visual Studio, and other development environments.

Exposure to several APIs, including OpenGL, Win32, and Java for PalmOS

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### **Work Experience**

#### **Texas Center for Applied Technology (2006 - present)**

Worked in a small team of developers to produce software used for simulation-based training of first responders to large-scale incidents. The project was a coordinated effort of the Department of Homeland Security, Texas Engineering Experiment Station, and Texas Engineering Extension Service.

Helped design and develop a serialization framework for Java emphasizing low-impact, speed, readability of the serialized form, and migration of serialized versions.

Designed and developed a fault-tolerant negotiation protocol for a fully distributed peer-to-peer system.

Designed and developed a capability-based framework for storing a simulation world state.

Individually developed embedded software in C#.NET for a mobile handheld scanner device running Windows CE 4.2 and 5.0, and also helped develop the protocol for reporting to a Java-based web service.

Developed tools for migrating data from disjoint spreadsheets and file-based databases to single larger SQL databases.

**Texas A&M University Department of Computer Science** (Fall of 2000 - Spring 2004)

Worked as a tutor for the department, and in the spring of 2003 became a peer teacher for an introductory Computer Science course.

In Spring 2004, worked with Dr. Bjarne Stroustrup in an introductory programming class with C++

**Texas A&M University Center for Athletic Academic Services** part time (Spring of 2001 - Summer 2003)

Tutored many athletes in programming basic algorithms, theory, language structure and usage, concepts, and also large-scale projects.

**TriActive, Inc.**

Worked for four summers (1998-2001) and other short school holidays as a full-time intern.

**NetBotz, Inc.**

Worked under contract (summer of 2001) for several weeks on fixing an HTML interface.

Involved using CSS and JavaScript form validation

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**Awards Honors Activities**

Participated in the church choir at St. Mary's Catholic Center, College Station, 2001-present;

Leader of a choir for 3 of those years

Member of the *Brazos Valley Schola Cantorum*, a male voice choir dedicated to the preservation of sacred chant in the Catholic liturgy, 2004 - present

Eagle Scout, 11/13/1997, Sam Houston Area Council

Member of the *Texas A&M University Singing Cadets*, 1999-2001, and went on several tours as a representative of Texas and A&M to places including Texas, Louisiana, Oklahoma, Arkansas, Kansas, and the UK.

Participated in the Eisenhower Leadership Development Program at Texas A&M, Spring 2002.

Involved in *Awakening* retreats and other activities at St. Mary's in College Station, and traveled to North Carolina and Waco to help staff retreats. Served at about 10 different *Awakening* retreats, once as head of the Music Staff.

Director of *Conversations*, a student organization which brings students and professors together into discussion groups outside the classroom.