

**Brian T. Rice**

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**Professional Objective**

I want to participate in new and innovative projects in software product or web services design and development, whether in a startup company or spin-off environment.

**Employment History****Owner**

*LOGOS Research and Development* (Seattle, WA)

*May 2002–Present*

Design, development, and testing of "Clean Slate" Smalltalk: a new programming language and software architecture intended to integrate and improve many disparate technologies into one coherent whole. This will constitute a new kind of software platform which should eventually be commercially viable.

**Lead Software Developer**

*Activated Content, Inc.* (Seattle, WA)

*March 2006–August 2006*

Embedded systems software development for weather and environmental autonomous sensing stations. Maintained, documented, and upgraded legacy code, extensions, configuration management, and product testing.

**Firmware Developer, as Independent Contractor**

*Coastal Environmental Systems* (Seattle, WA)

*June 2005–October 2005*

Embedded systems software development for weather and environmental autonomous sensing stations. This involved maintenance, documentation, upgrade of legacy code and extensions, configuration management, debugging, functional testing, and reliability testing of the product.

Prepared high-level documentation on the overall parameters and design of the product, and developed a set of recommendations for developing the product forward.

**Data Warehousing Systems Engineer**

*Microsoft, Inc., MSN iDSS division (via Volt Information Services)* (Redmond, WA)

*February 2004–February 2005*

Developed and operated infrastructure software for performing data-warehousing processing and validation. Deployed, troubleshot, and operated data-warehouse pipeline software. Worked with SQL Server/OLAP solutions and web site management. Handled the cataloging and replacement of legacy infrastructure software, managed within SourceSafe version control. Administered SQL Server installations and developed a large management database application for auditing and automation purposes. Worked with multiple MSN organizations in negotiating interaction protocols and software deployment issues. Developed clustering and optimized pipeline configurations for robustness and performance.

**Projects:**

- MSN adCenter

**Software Design and Research Consultant**

*Ibis Information Securities* (Seattle, WA)

*December 2002–June 2003*

Consulted in the development of innovative wireless technologies and the software required to manage them. Also consulted in the field of online data-mining in the systems security field. I designed and developed an innovative product using dynamic language technologies.

**Lead Developer**

*ForeHorseNet, Inc.* (Seattle, WA)

*February 2001–December 2003*

Worked with the company founders to develop a coherent technical strategy for the product (online payment system), by evaluating customer requirements, marketing issues, and suitable technologies and budgeting requirements.

### **Nuclear Reactor Technician, Workflow Applications Programmer**

*U.S. Navy (USS Carl Vinson Bremerton, WA)*

*March 1996–March 2002*

Electrical and electronics troubleshooting and repair, supervision and training, database applications programmer and administrator for the coordination of hundreds of work activities and information management. Managed a working group for equipment maintenance for over 2 years. Managed a system for equipment Quality Assurance, vibration monitoring, and software management for 2 years.

Designed, developed, and deployed a database client-server application for coordinating and scheduling activities and their dependencies for the nuclear and engineering sections of the ship as well as its associated shipyard activity. Outlined software requirements, met with several entities, collected feedback from pre- and post-deployment usage, and studied existing systems in effect. The system operated daily with several hundred users, with layers of authorization and up to a dozen concurrent users in normal operation, along with an extensive reporting facility and mechanisms in place for assuring data accuracy and transaction logging.

#### *Projects:*

- Iraq "No-Fly Zone" Enforcement
- Initial Response in Afghanistan to 9/11

### **Engineering Mathematics Lab Administrator**

*Texas A&M University Mathematics Department (College Station, TX)*

*October 1995–March 1996*

Ran a computing lab for the use of symbolic algebra systems for engineering students of all levels of study. Provided technical support and assistance in making the most out of this software, as well as tutoring in engineering/simulation problem-solving and brainstorming.

### **Independent Tutor in Mathematics and the Sciences**

*(Various)*

*1992–1997*

Provided tutoring services to fellow students at a competitive rate. Fostered consistent success through highly-approachable explanations of deep technical and conceptual foundations of the field. Marketed entirely through word-of-mouth recommendations.

### **Engineering CAD Draftsman (intern)**

*O'Brien Manufacturing (Houston, TX)*

*1994–1995*

Rendered an existing library of technical drawings of their product (high-survivability power plant controls/instrumentation enclosures) and set up environments for 3-D layout of customer equipment in existing and potential products.

## **Education**

**AS-equivalent coursework in Computer Science and Mathematics**, March 1996.

Completed two years of honors course work in engineering and mathematics, along with much independent study in computer science and mathematics, logic and philosophy.

Texas A&M University

**High School Diploma with Honors**, May 1995

Humble High School, TX

*Overall GPA: 4.7 out of 5.0*

*I am primarily self-educated over the years, accumulating quite a library and using it regularly. I also correspond regularly with post-doctorate researchers on relevant topics.*

## **Security Clearances**

- *Classified*, US Navy / US Department of Energy, 1996. FBI background checks.

## **Systems Software Development**

Programming Language Design (10 years), Domain-Specific Language Design and Implementation (expert), Compiler Implementation (intermediate), Virtual Machine Implementation (4 years), Managed Run-time Implementation (4 years),

Formal Methods to Analyze and Simulate Concurrent and Distributed Software Designs (intermediate).

## **Databases**

Schema Design and Implementation (expert), Schema Analysis and Optimization (intermediate), Query and Stored-Procedure Design and Optimization (expert), Security/Vulnerability Analysis (intermediate), OLAP Cube Management (1 year), MySQL (2 years), PostgreSQL (3 years), Microsoft SQL Server (3 years).

## **Web Development**

PHP Programming (intermediate), Semantic HTML/CSS/Javascript presentation/layout/behavior (expert), AJAX-style Web-development (1 year).

## **Source Control**

Subversion, CVS (expert), DARCS (expert), SourceSafe, SourceDepot, Perforce.

## **Professional Memberships**

### **Member**

Smalltalk Industry Council  
2002–

### **Member**

Association of Lisp Users  
2002–

### **Lead Researcher, Designer, and Coordinator**

The TUNES.org project  
October 1999–

Helped re-design the site and its documentation to reflect a broader range of technical research and to separate political from technical goals.

## **References**

Available upon request.

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