

# JASON STREDWICK

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## OBJECTIVE

I am a life-long learner that has a passion for programming. I seek employment that will challenge and diversify my skills and will continue to push the boundaries of my knowledge.

## SKILLS

SKILL	Professional Use	Total Use
C/C++ (Visual C++, gcc/g++, others)	3 yrs	14 yrs
Perl	1 yr	4 yrs
Java	9 months	9 months
SQL	2 yrs	2 yrs
Perforce	2 yrs	2 yrs
Linux/Unix/QNX	3 yrs	7 yrs
Matlab		3.5 yrs
SDKs, Toolkits, and Others I have used personally and academically.	OpenGL, QT, Win32, X, HTML, Javascript, php, cluster computing, sockets, multi-threading, lex/yacc, Windows	

## WORK EXPERIENCE

**Temp, DigiPen Institute of Technology** Jan 2010 – Current

- Developing web content for ProjectFUN workshops using Camtasia and Typo3.
- Teaching online ProjectFUN workshop material to new state-wide ProjectFUN clubs.

**Tech Academy Instructor, DigiPen Institute of Technology** Aug 2006 – July 2009

- At the Puget Sound Skills Center, I helped high school students build a foundation in programming (C/C++), mathematics, and art principles to prepare them for an education/career in the video game industry.
- Created a curriculum alignment for the state of Washington. This alignment was used as the baseline for other Tech Academies
- Generated problems and teaching materials
- Generated ideas and implementations for parent communication, advertising, and further integration with the skills center

**Graduate Research Assistant, Michigan State University** Fall 2002 - Spring 2005

- I researched and developed the digital evolution system called WhirlingDervish, which evolves virtual 3D wireframe structures that can move around on a flat surface. This system became the platform for my thesis project. My thesis goals included examining different measurements to compare studies using WhirlingDervish and like systems.

**Programmer, LON-CAPA (Learning Online Network with CAPA)** May 2002 – July 2002

- Wrote the Perl module to generate and display statistical data for online coursework.

## WORK EXPERIENCE (continued)

- Programmer, FAAC Inc.** Sept 1999 – June 2001
- Designed emergency vehicle fluid flow system to simulate the extinguishing of plane fires.
  - Maintained SQL databases and instructor software for airport driving simulator products.
  - Extended and maintained the scripting tool used to generate automated and waypoint traffic for driving scenarios used by all the commercial driving simulator products.
  - Tested commercial systems and provided on-site installation for airport clients.
  - Helped keep the various commercial product source trees in sync. This required maintaining a high level of communication between the various product lines and balancing the constant need to deliver.
  - Helped establish a coding standard and storage practice for commercial products using Perforce.
- Programmer, RDP (Ribosomal Database Project)** Nov 1998 – Aug 1999
- Developed XML-based tools using Java, Perl, and C++ to automate extraction, parsing, and loading of online GenBank data into a database.
- Programmer – Internship, Battelle/PNNL** June 1998 – Aug 1998
- Learned and applied software engineering procedures to create a program that took data stored in a spreadsheet and convert it to an html catalog.
- Engineer Assistant – Internship, Westinghouse/Hanford** Mar 1994 – Aug 1994
- Wrote a Fortran program to perform visualizations and statistical analyses on nuclear waste emission data.

## SAMPLE OF PERSONAL PROJECTS

- Tools for Phylogenetic Tree Analysis** Current  
At the request of a colleague from graduate school I am developing several tools for analyzing phylogenetic trees using the output from Avida software.
- Extended Loki-Library Functors** 2006  
I modified the Functor code to make an explicit interface that all Functors share. Using this interface, I reorganized the code and added a few variants of my own.

## EDUCATION

- M.S. Computer Science, Michigan State University** Dec 2005  
Thesis: “Evolutionary Dynamics of 3D Digital Constructs”
- B.S. Computer Science, Pacific Lutheran University** May 1998