

JULIO FLORES SCHWARZBECK
19 Binnacle Ln – Foster City CA, 94404
Telephone: (650)-274-3750 – julio@techfuel.net

COMPUTER SYSTEMS ENGINEER / INFORMATION ARCHITECT

Experienced web developer with **ten years in developing dynamic web applications and computer system architectures**. Innovative professional with proved ability to analyze, plan, design and architecture complex dynamic web applications through expertise in:

- System prototyping using Python
- Web application developing in Zope/Python
- Multi-language software applications
- Imaging & image tracking systems
- Model simulation using Systemic Analysis
- Operations Research
- Custom systems programming

Demonstrated exceptional skills in web application developing, back-end script processing on Unix systems from group planning sessions through implementation in variety of software architectures and capitalizing on competencies of technical and design teams.

TECHNICAL SKILLS

WEB APPLICATON DEVELOPMENT

Zope Content Management (v 2.6-3.0)
Plone Content Management (v 1.0-2.5)
Python Web Extensions (v 2.2-2.5)
CSS and XHTML Web developer, Certified

DATABASE APPLICATIONS

Postgres SQL (v 7.0-8.1)
MySQL (v 3.23-5.1)
Microsoft SQL
Zope ZODB

SOFTWARE APPLICATIONS

Unix shell programing in Python
Image tracking systems
Custom database-driven applications

OPERATING SYSTEMS

Linux (2.4/2.6 Kernel)
Windows XP/Server (2003)
Mac OS X (10.3, 10.4, 10.5)

PROGRAMMING LANGUAGES

Python (Specialty) (2.2-2.5)
GNU C standard
Microsoft Visual C#

OTHER

ZPT – Zope Page Templates
DTML – Document Template Markup
Language (Zope)
ZEO/Apache/Pound Web server load balancing

EDUCATION AND PROFESSIONAL TRAINING

- **Bachelor of Science in Manufacturing and Systems Engineer** – 1996
 - (Industrial and Systems Engineer)
 - Instituto Tecnológico de Sonora, Ciudad Obregon, Sonora, Mexico
 - (Sonora Institute of Technology, Obregon City, Sonora State, Mexico, a U.S. recognized University, degree equivalence: Bachelor of Science in Manufacturing and Systems Engineer, U.S. Department of Labor certification).
- **Diploma: World Class Manufacturing** – 1993
 - Instituto Tecnológico de Sonora, Ciudad Obregon, Sonora, Mexico
 - (Sonora Institute of Technology, Obregon City, Sonora State, Mexico)
- **Certification: CSS/HTML/XHTML Developer** – 2003
 - Web development - coding standards in HTML, XHTML 1.0/1.1 and CSS 2.0,
 - (W3Schools, Oslo, Norway)

CAREER HIGHLIGHTS

Fisher Asset Management, LLC DBA Fisher Investments

APPLICATION DEVELOPER LEVEL 2 / ZOPE APPLICATION DEVELOPER SR. 2008 – Present

Key applications run under the Zope and Python programming languages under the Windows environments

- ◆ Maintain and extend current Python functionality for entire company,
- ◆ Web application administrator for all Zope-based systems
- ◆ Custom software development for key parts of the business

National Services Group Corp, Irvine CA

INFORMATION ARCHITECT / ZOPE APPLICATION SR. DEVELOPER 2006 – 2007

In charge of a large-scale custom integrated system based on the Zope framework, a nationwide access system.

- ◆ Plan, design and implementation of custom requirements, including implementation of upgraded and new technologies for the Zope framework in the Linux environment
- ◆ Payroll connectivity to SYBASE-based database system for the accounting department
- ◆ MySQL database administrator
- ◆ System maintenance using CRON and Python scripts
- ◆ High-performance load balancing server setup using Apache/Pound and ZEO
- ◆ Software administration for the company-wide web servers for intranet and internet access.

CodeIt Computing, LLC, Irvine CA

INFORMATION ARCHITECT / APPLICATION DEVELOPER 2000 – 2006

Involved in planning, design and implementation of dynamic web applications, translation services and quality assurance and testing of new and current systems.

- ◆ Unit testing in order to achieve desired application functionality
- ◆ Creation of system prototypes before the design phase of complex web applications
- ◆ Maintenance of bug-tracking system on assigned projects
- ◆ Coding of low-level functions written in Python programming language to act as a glue to interact with external application in the Linux environment.
- ◆ Testing current systems on new platform versions
- ◆ Use of simulation processes to forecast system behavior under high load environments
- ◆ Localization (language selection and translation) of current web systems
- ◆ Sr. software developer and maintainer of largest customer in company, in charge of Web Development and maintenance of a large scale international retail store.

LASON International, Anaheim, CA

PROGRAMMING DEPARTMENT MANAGER, MEXICO OPERATIONS 1995 – 2000

Managed a group of 10 programmers for in-site application development for a Data Entry Warehouse company, involving the reception of images via satellite and the transmission of OCR-processed data back to the data center.

- Responsible for First Quality Assurance supervision on software releases.
- In charge for the scheduling of bug corrections.
- Main developer of tracking system software, involved in the reception and transmissions of images between USA, Mexico, China and the offshore Caribbean countries of Grenada and Barbados, West Indies, worked on-site. (College Thesis).
- Primary consultant on technologies to apply to current and new systems
- Database System Architect.
- Developed the company's web-based application to view the status for all the images being processed real-time.
- Define and achieve internal program requirements and quality control processes. “.. **If we can find five more Julio's, we will definitely be set.**” Richard Coleman (CEO, Digital Imaging Branch).

Universidad La Salle, Sonora, Mexico (La Salle University, Sonora State, Mexico)
ASSOCIATE TEACHER – COMPUTER SCIENCES

1994-1998

Taught computer science, programming languages, and mathematical programming.

- Creator of the high-school teacher's manual on Object Oriented Programming.
- Involved in the decision-making process for acquiring new computer systems.
- Setup of the first Internet-ready computer laboratory.

COMMUNITY INVOLVEMENT

- **Mentor** – La Salle University – assisting low-income students on computer skills improvement for school program.
- **President** – Young Entrepreneurs, Chamber of Commerce, Ciudad Obregon, Sonora, Mexico – Actively involved with entrepreneurial organization
- **Member** - Sonora Institute of Technology – Alumni Society of Industrial and Systems Engineers

FREELANCE PROJECTS

Technical Consultant, Anres Technologies Corporation, web implementation and web security assurance program.

zForum – zForum is an enterprise-class message board system used world-wide, it is an Open-Source software that allows users of the Python programming language and the Zope Web framework to have a forum system, zForum is ranked as the best message board system in the world for the Zope platform. zForum was developed entirely by Julio Flores Schwarzbeck.

zForum URL: <http://www.zforum.org/>

Websites that use zForum (Updated Dec, 2007):

<i>Website</i>	<i>Country</i>	<i>about</i>
http://www.womeninleadership.det.wa.edu.au/wil/zforum	AUSTRALIA	Women in Leadership Strategy of Department of Education and Training, Western Australia.
http://www.cartft.com/community/carpcforum/index_html	GERMANY	Global Positioning Systems Designers
http://www.linux.co.uk/zforum	U.K.	Linux Official Website
http://www.cmat.edu.uy/cmat/estudiantes/foros/	URUGUAY	Faculty of Sciences – Mathematical Center – Uruguay Republic University
http://www.google.com/search?q=zforum+zope&btnG=Search&hl=en&lr=&safe=off	U.S.A. (GOOGLE)	More than 9,000 articles and websites dedicated to zForum
http://www.barbarawood.com/zforum/index_html	USA	Barbara Wood – Best-Selling Author

Ztracker – zTracker is an enterprise-class issue/bug tracking system built using the Zope framework, zTracker was released Summer of 2007.

zTracker URL: <http://www.ztracker.org/>

AIA Actor's Studios – AIA Actor's Studios is a complete web application for an important casting company located in Burbank, CA, the application allows members to sign up for classes and auditions and provides a complete administration back-end that control financial transactions, member management, class and audition management, statistics and intranet access.

AIA Actor's Studio URL: <http://www.aiastudios.com/>

BLOG

Personal Weblog URL: <http://www.julioflores.com/>