Gregory Martin Pfeil

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Software Engineer

OO architecture & design • machine learning • DSP • agile development

Energetic, enthusiastic, and capable of providing the quality implied by the title of engineer, I am knowledgeable in language design and able to utilize any language at an intermediate level in a week's time. The *craft* of software is of utmost importance – creating applications worthy of pride. I am determined and take great pleasure in my work – a strong and flexible part of any team, willing to take on less glamorous work to make sure the end result is of the highest possible quality.

Programming Experience

Software Development Engineer 3 – Amazon.com (Sep. 2004-present)
- received two promotions in a period of 2.5 years, a record for an SDE;
- conceived, designed, and developed a **declarative logic** system written in **Common Lisp** to simplify Web features while improving parallelism and general performance [ask me more about *PDS*];
- revamped a **C++** content-scheduling system to add a **feedback-based learning** component, and to make it modular so third-parties could schedule new content [ask me more about *the Upsell Cart*];
- performed *Weblab* experiments, acting as analyst in interpreting the data
- personally responsible for millions of dollars in gross profit (as measured by Amazon's *Weblab* system)
- spearheaded skunkworks effort to support Lisp development
- *MAS, CCHUC, Comparison Tool, Series, Spectrum*

Founder, Partner – Valent Solutions Inc. (Dec. 2002-Jul. 2004)
- custom application development for clients in disparate domains
- explored various languages and APIs in projects for different clients
- managed projects of varying scale in **Java**, **C++**, and other languages
- performed research to further develop programming and process skills
- continued to develop and maintain previous projects on contract
- managed customer expectations and project time lines

Senior Software Engineer – XML Global Research (Nov. 1999-Dec. 2002)
- designed and developed a tracking system for stolen property in **Java**, used by a number of police forces, including the Vancouver Police Dept.;
- developed large-scale applications in **C++**, Java, and **Perl**
- designed and developed a context-sensitive **search engine**
- developed a native XML database and an ebXML Messaging engine
- managed ports of enterprise software to additional platforms
- worked extensively with **XML** technologies, including XSL, XML Schema, SOAP, SAX, and DOM

Publications & Presentations

- *Insinuating Lisp* – Proceedings of the International Lisp Conference, April 2007 – pp. 23-34
- *Being Productive with Declarative Languages* – Amazon Developers Journal, November 2006 – (Amazon confidential)

Languages of interest and some skill
- Haskell, Ruby, Objective-C, C, Python, JavaScript
- JavaScript, bash, SQL

Environments
- Emacs, Eclipse, Vim, Xcode, Ant, make
- Mac OS X, Linux, Unix, Windows 2000

Wearable Computers
- Domain expert – NASA's Error Proof Flight Deck
- Designer – personal wearable computer
- Proponent, Moderator – comp.sys.wearables newsgroup
- Maintainer – Wearable Computing FAQ

Other
- Wrote a low-level audio API for **Eiffel**
- Developing a programming language to better understand concepts and implementation issues
- Participate in the Open Source community as a programmer on multiple projects
- Freelance **Perl** programmer for two years
- Member of various Linux Users Groups, Perl Mongers associations, Association of Internet Professionals, Association of Lisp Users

Additional Information

- Taught programming (**Perl**, CGI) workshops in the JMU Computer Science department

Activities
- Member, Mensa
- Brother, ΑΦΩ, national service fraternity

Education
- James Madison University (Aug. 1996-Nov. 1999)
- Studied Music Composition and Computer Science
- Courses in speech communication and technical & scientific communication

- Citizenship: United States