

**EXPERIENCE**\_\_\_\_\_YEARS  
 Open Source Programming.....13  
 R&D.....8  
 Management.....3

**PLATFORMS**\_\_\_\_\_

Unix.....	11
Java (J2SE, J2EE).....	5
MacOS X, OpenStep.....	4

**LANGUAGES (HARDCORE)**\_\_\_\_\_

Ruby  
 C  
 Bourne Shell  
 Java  
 Perl  
 Objective-C  
 SQL  
 Scheme

**LANGUAGES (RUSTY)**\_\_\_\_\_

PHP, Erlang, Tcl/Tk, C++, Python,  
 BASIC, Smalltalk, Self, LabView,  
 RPL, SuperCollider, MAX/MSP,  
 FORTH, etc.

**PACKAGES**\_\_\_\_\_

Apache, Publicfile, Dydns  
 MySQL, Postgres, Oracle, Informix  
 WebLogic

**RESEARCH INTERESTS**\_\_\_\_\_

semantic data modeling  
 groupware  
 logical planning

**OTHER INTERESTS**\_\_\_\_\_

dance  
 cooking  
 voluntary simplicity  
 jazz drums

**Joe Edelman**  
 "Project Manager", "Software Engineer", "Interface Design"  
 (age 28.7 yrs, 148 lbs)

Currently  
 Employed

joe@gu.st  
<http://joe.gu.st>

**ENJOYS**\_\_\_\_\_

DESIGNING simple, robust, blindingly-fast, scalable systems  
 RETHINKING the way our society works  
 SIMPLIFYING interfaces  
 HITTING THE STREETS

**EDUCATION**\_\_\_\_\_

Dartmouth College, Hanover, NH – B.A., 2003  
 Massachusetts Institute of Technology – H.S.S.P., 1993

EMPLOYERS	ROLE	FIELD	START-MONTHS
Renesys Corporation.....	SE	Distributed Web Apps.....	1/04.....16
fMRI Data Center.....	PM, SE	Scientific Data Mgmt.....	5/02.....14
Earthdance Workshop & Retreat Center.....	PM, SE	Online Community.....	10/01.....5
Government of Tibet in Exile.....	Teacher	Web Programming.....	6/01.....4
Skyfish.com.....	PM	Aircraft Auctions.....	4/00.....11
Independent Consulting.....		Web Programming.....	5/99.....19
ODC.....	Database Architect	Decision Support.....	1/99.....5
Dartmouth College.....	Researcher	Bioinformatics.....	10/95.....36
WGBH Television.....	Web Architect	Online Community.....	9/97.....4
Interval Research Corporation.....	Researcher	Gesture Recognition.....	5/96.....5
Charles River Analytics.....	Programmer	3D User Interface.....	5/95.....4
Harvard Medical.....	Programmer	Data Acquisition.....	5/95.....4
MIT Artificial Intelligence Lab.....	System Administrator	IT.....	3/93.....28

**PUBLICATIONS**\_\_\_\_\_

Hierarchical Views of Databases (in process)  
Fully-Connected Scientific Metadata (in process)  
Data Sharing in Laboratory Science: Towards a Protégé Solution, Protégé Workshop 6, 2003.  
An Ontology for fMRI Studies, JAMIA (submitted, 2003).

## WORK HISTORY & ACCOMPLISHMENTS

---

### 1/04-ongoing **Renesys Corporation**

Software Engineer. *Hanover, NH.*

- Developed robust distributed backend infrastructure for high-throughput real-time data collection, analysis, and alerting. (C, Perl)
- Developed innovative single-page "Ajax" web interfaces to previously hard-to-use databases. (Ruby, Javascript)
- Refactored pre-existing code to make it robust & maintainable. (Perl, Java)
- Developed build system for deploying and updating live Java software on many hosts at once without taking down servers. (GNUMake/rsync/Java)

### 5/02-6/03 **fMRI Data Center at Dartmouth College**

Project Manager & Software Engineer. *Hanover, NH.*

- Conceived and managed a collaboration between groups at Dartmouth, Stanford, Washington U.
- Lead development of software for data sharing and cooperation between laboratory scientists. (Java, C, Perl, Python)
- Worked closely with NIH, NSF, and Neuroscience leaders.
- Established pilot programs and development collaborations at several universities.

### 10/01-2/02 **Earthdance Workshop & Retreat Center**

Project Manager. Web Developer. *Plainfield, MA.*

- Built a community website for dancers. (PHP)

### 6-9/01 **Government of Tibet in Exile**

Teacher. Applications Architect. *Dharamsala, INDIA.*

- Ran a two-month course on building database-backed web sites. (Perl)
- Worked with members of the government on an intranet to facilitate collaboration with Students for a Free Tibet (sft.org) and the International Tibet Support Network (tibet.org/itsn).

### 4/00-2/01 **Skyfish.com** *Boston, MA.*

Project Manager. Lead Developer. Resourcing.

- Created a business unit auctioning aircraft on the web. Worked with strategy, finance, aircraft owners, sales, designers, & programmers. Prepared vision, functional requirements document, functional spec, project plan, architecture description, process, & operations manual. Assembled and managed a team. (Java/EJB)
- Managed engagements with a large systems integration firm and several contractors. Acted to ensure innovation and cooperation in the difficult environment of a joint venture.

### 5/99-11/00 **Joe Edelman**

Independent Artist / Consultant. *San Francisco, CA.*

- Created widely-used software libraries. (Perl, SuperCollider)
- Designed, prototyped, launched, and maintained a city-wide role-playing game, with actors in various locations coordinated through a database-backed web system. (Apache, mod\_perl, MySQL)
- Designed and built a CSS2-audio & Braille terminal ready website for the blind for the National Telecommuting Institute. (HTML/CSS)

### 1/99-5/99 **ODC**

Database Consultant. *Norwich, VT.*

- Advised database normalization process.
- Wrote software for the automatic migration of data among multiple relational databases and text-file formats. (Perl)
- Researched collaborative filtering and user-profiling technologies.

### 95-99 **Dartmouth College** *Hanover, NH.*

Researcher: Molecular Modeling and Mobile Code.

- Designed, implemented, and tested an economic infrastructure for mobile code agents, including adaptive systems for secure e-cash transactions, distributed banking, contract arbitration, and resource advertisement. Managed a programmer.
- Designed a system for modeling flexibility in the entropic and energetic interactions between a large protein and a ligand using a technique from robot vision called geometric hashing. Developed a Python-based system for assessing the flexibility of a protein from NMR data.

### 9/97-12/97 **WGBH Television** *Boston, MA.*

Consultant. Zoom! Production Team.

### 5/96-9/96 **Interval Research**

Research Intern. *Palo Alto, CA.*

- Designed and prototyped a child's toy featuring a camera-based interface and sophisticated rhythm and gesture processing.

### 5/95-9/95 **Charles River Analytics**

C / X-windows Programmer. *Boston, MA.*

### 5/95-8/95 **Harvard Medical** *Southborough, MA*

Network Engineer / LabView Programmer..

### 93-95 **MIT Artificial Intelligence Lab**

System Administrator. *Cambridge, MA.*