



A Software Engineer
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 u@t-0.be
 relocatable worldwide

most recent →
 work history

Areas of Expertise

- distributed servers
- handheld apps
- MAC, Unix GUIs
- off-shore teams
- open source
- requirement discovery
- SQL databases
- tailored data structures and algorithms in C
- unix development
- VoIP
- web-apps
- Windows administration

Style

- concise, obvious code
- ample research beforehand
- using the most productive tools available
- static analysis, when possible
- small, testable components
- design with a sense of craftsmanship

PortaOne
 MAR '08-JAN '10
Kiev, Ukraine
 VoIP developer
 & trainer

They sell a billing system for VoIP providers with a web UI and signaling switch. The international team of a dozen coders writes portable code with many open source components and an SQL backend.

Responsibilities

- » primarily designed and programmed servers
- » conducted interoperability tests with several vendors & protocols
- » trained customers on-site in a dozen countries
- » coordinated paid feature development between users and devels
- » wrote an engine for searching and distributing terabytes of logs
- » designed a high-performance clustering engine for our billing server
- » scripted an invoice template engine using headless OpenOffice.org

Gambia College
 MAY '06-DEC '07
The Gambia
 sysadmin,
 hacker &
 volunteer

As volunteer, I taught myself Windows administration and set a new 200-node network with minimal, inexperienced help.

Fixed and customized many free software packages for the network, library catalogue, internet cafe and student database.

Other Duties

- » taught a basic office course; full-time for three months
- » designed few small websites and wikis

CAI Networks
 JUN '05-MAY '06
Orange County, California
 DNS developer

Brought a new clustered DNS appliance to market, from design to user docs, largely independently.

Some Tasks

- » patched BIND to be geographically-sensitive
- » turned the latest digital-trie research into production code
- » created a 5MB Linux distro with Busybox/uClibc
- » wrote a distributed health monitoring server

d.Bayer Consulting
 JAN '02-JUN '05
 Mac & unix contractor

Fermilab

Moved the Tevatron's data distribution system to a high performance cluster architecture and ported from IRIX to Linux.

University of Rochester

Rewrote a control and data collection app. for a muon detection board, then added a GTK interface with animations.

Contracted Mac Projects

- » a business card printer
- » Hold It, which visual rings for incoming calls
- » a pre-Spotlight archive of Safari's history
- » Fishy Vision, a utility to help read foreign texts

TSP
 DEC '02-SEP '03
Lebanon, NH
 PalmOS & web

designed tools for traffic surveying:
 » a handheld app for live event tracking and field data entry
 » a website to upload data using Ruby & PostgreSQL, with a downloadable analysis in OpenOffice's Calc format



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The Page of Lists

- » technologies and years of significant development experience
- » open source projects for which I contributed patches

Programming Languages

Applescript	•••
AWK	••••••
BASIC	••
Batch	••••
Bourne shell	••••••
C++	•••••
C99	•••••••
make	••••••
Objective-C	••••
PHP	•••
Perl	••••
Python	••••
QBasic	•••
Ruby	••••••
sed	••••••
x86 assembler	•
XSLT	••

Servers / APIs

Bind DNS	••
Google App Engine	•
MySQL	•••••
Oracle	•
POSIX	•••••••
PostgreSQL	••
Uno/OOo	••
X11	•

Major Libraries

Boost	••
Cocoa	••••
glibc	••••••
GTK+	••
Judy (tries)	•
SQLite	•••••
uClibc	••

Protocols / Formats

CSS	••••••
XHTML	••••••
DNS	•••
DocBook	••

ENUM	••
HTTP	•••
MSI	•
NTP	•
ODF	••••
OSCAR (AIM)	•
RADIUS	••
Regedit	•
SIP	••
SOAP	•
SSH	•••
SSL	••
Streamload	•
TCP/IP	••••••
UDP/IP	••••••
XML	••••
XMPP	••
YAML	••
Z38.50	•

Misc Tools

AJAX	••
CVS	•••••
dtrace	••
Frama-C	•
Git	•
Monotone	•••
gdb	••••••
regex	••••••
SVN	••
VIM	••••••
VMWare	••••

OS (Developer)

Debian	••••
DOS, BIOS	••••
Embed. Linux	••
FreeBSD	••
IRIX (Unix)	•
Mac OS X	•••••
PalmOS	••
Redhat	••••
Windows	•

OS (Administrator)

Debian	••
Windows	••

Open Source Patches

aimsleuth
All About Circuits
Amua (last.fm)
Authen::RADIUS
BIND
Boost
buildroot
Busybox (+ SSL)
CVS Changelog
Debian Packages
Dia
Docbook XSL
Dropbear
eltorito (util)
Frama-C
FUD Forum
Gaim
Gaim-XMPP
Hostkeys
imlogconverter
iTunes Overlay
Judy (tries)
Koha
Last.fm Proxy
libtranslate
LogiCampus
Nagios
Net::Jabber
SysLinux
OpenNTP
Privoxy
Quizwiz
reXML
Ruby-ZOOM
Srapeh
streamload-perl
udpcast
VideoDB