

Curriculum Vitae

Vivek Dasmohapatra

May, 2009

This CV is available from <http://users.pepperfish.net/vivek/cv/>.

For an up-to-date copy in PDF format, see that location.

Personal Details

Date of Birth: 1975-06-03
email: vivek@etla.org
Nationality: Indian (permanent residency in the UK)
Mail: 84 Sleaford Street, Cambridge, CB1 2PU
Phone: +44 7979 907 006

Education

1993–1996 **King's College, University of Cambridge**
BA Hons
Bachelors Degree in Natural Sciences [Materials Science]

1988–1993 **Rougemont School, Newport**
S-levels: Physics(1), Chemistry(1)
A-levels: Maths (A), Physics (A), Chemistry (A)

Employment

- Oct 2005–Dec 2008 **Trutap Ltd** , (formerly Hotxt Ltd), London and Cambridge
 Programmer, initially with Hotxt working on both the front end web pages and services and the backend database and server support for them in a 3-man team, and later for Trutap working on the backend services including lead development on an asynchronous job queueing system, service stats collection and processing and an IM (Instant Messaging) service.
<http://www.trutap.com/>
- Jan 2001–Sep 2005 **Zeus Technology Ltd**, Cambridge
 I joined Zeus technology as part of the team responsible for designing and developing internal applications and systems: I was responsible for the licensing and sales system for issuing and tracking licence keys and support contracts, as well as the support system for handling incoming email support requests, logging them, and notifying the support team. My duties also included designing the database schema(s) required to support various systems, both internal to the company and exposed to users via the web, and setting up and maintaining said databases. My duties expanded to include the running of many of the systems at Zeus, network administration, firewalling, VPN setup, email systems, webserver administration and lightweight data-mining being among the tasks I carried out.
<http://www.zeus.com/>
- Nov 1998–Nov 2000 **E*TRADE UK**, Cambridge
 I was taken on by E*TRADE UK [ESI, as was] to help with the setup/rollout of their new E*TRADE UK website.
 Initially my work involved setting up a few web pages and writing some simple CGI and Perl scripts: This role rapidly expanded to updating and modularising large chunks of legacy code, while porting them from Perl 4 to Perl 5, designing and writing modules to provide new functionality, and writing part of the web front end/trading back office interface (this involved custom C extensions to Perl). Later on, I was involved in/responsible for setting up code repositories, writing various bits of emulation software used for testing the trading system, reverse engineering part of the back office system to extract data from it, setting up a bug tracking/reporting system [Bugzilla], extending database functionality (PL/SQL and Transact SQL procedures) tracking down various database/system problems [both for emergency trouble-shooting and in response to queries from the CS department] and general problem solving/firefighting/computer taming.
- Dec 1996–Oct 1998 **Imagnet Ltd**, Cardiff
 I was employed by Imagnet as a System Administrator/Programmer/Technical Generalist. My work there involved installing, configuring and maintaining various websites, and the web servers and databases that powered them, as well as extracting requirements from customers and designing [from a technical/programming point of view] and writing/setting up the scripts, programs and databases required to meet those requirements.

Open Source Projects

- dbishell** I wrote and maintain dbishell, a readline-enabled database shell.
- emacs** I have contributed patches to emacs, including a buffer-to-marked-up html package due for release with emacs23 (<http://rtfm.etla.org/emacs/htmlfontify>)
- libpurple** I have recently written Perl bindings for libpurple which will be uploaded to CPAN as soon as I've cleared it with my previous employer.
I have also written a small libpurple based daemon which communicates with its clients in s-expressions, making it easy to write IM support for Lisp and Lisp-like systems (<http://www.emacswiki.org/emacs/ELIM>)

Skills

- **General Programming and Design:**

- API Design
- Design of systems involving multiple components (end-to-end trading pipeline at E*TRADE UK)

- **System Administration:** (Linux, *BSD, Solaris and others)

- DNS (bind)
- File Serving: Samba, NFS, Netatalk
- SMTP exim (and to a lesser extent sendmail) configuration
- POP, IMAP
- OpenVPN
- Firewalls (iptables, pf, ipchains, ebttables)
- Webservers (Apache, Netscape, Zeus)
- General configuration and set up
- Persistent engines such as mod_perl and FCGI
- Debugging and diagnosis of problems in production environments
- Use of the usual diagnostic tools: strace, tcpdump, ethereal et al.

- **Perl**

- OO Classes
- DBI database layer (extensive use)
- XS (Custom C and C++ extensions to Perl)

- **Other Languages**

- C (and to a lesser extent C++) inc GTK and GLib programming
- Shell (bash and portable POSIX compliant sh scripting)
- Lisp (a little experience with the Lisp/scheme family of languages)
- Javascript (experience may be out of date, not recent work)
- PL/SQL
- TransactSQL

- **Miscellaneous Technologies**

- libpurple (Instant Messaging library)
- SQL Databases (administration and use of: Oracle, Sybase, MySQL, Postgres)
- C Procedures in Oracle
- RPC clients
- X25 clients/servers
- Berkeley DB (and similar, eg gdbm)

Comments

I enjoy problem solving and learning about new systems, particularly in the field of computing: I have never been afraid of diving in and learning what I need to to tackle a new project (this was how I made the transition from web-monkey to trading pipeline designer and programmer at E*TRADE UK): I also have experience of (and some skill at) breaking down larger problems and systems into more manageable sized chunks before proceeding.