

CURRICULUM VITAE (2015)

James KAY
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PROFILE

Flexible, focused developer with experience in many languages who enjoys building practical projects, seeing them come to fruition, and trying out new approaches and abstractions. Have reasonable knowledge of a large number of tools and methods and can choose and link the right ones for a task of any size or domain. Always eager to learn and add another tool, the better to solve the immediate challenge and others that might arise in the future. Currently studying MComp computer science at the University of Bath; expected graduation June 2016.

EXPERIENCE

- Worked for Tweag I/O, mostly designing and building software for high-performance distributed computing using Haskell.
- Worked for a Web design and development company, Strategic Internet Consulting, building and maintaining a variety of websites and Web applications, especially based on the Joomla! PHP content-management system. Was also in charge of setting up, maintaining, and automating two Linux-based servers and a Python-, git- and bash-based development and deployment infrastructure.
- Worked for a Web design and development company, FAT Promotions, building and maintaining websites and the in-house e-commerce system, using PHP, MySQL, PDO, JavaScript, HTML, and CSS.
- Worked for a viral marketing company, The Viral Factory, on multiple occasions, on a mid-sized Web application, first in a small team and then alone, using a variety of technologies: prominently, PHP, MySQL, and PostgreSQL.
- Maintained several applications, including a succession of personal sites developed with different technologies (PHP/MySQL, Python/Django/PostgreSQL, Python/Pylons/PostgreSQL, Haskell/Hakyll).
- Investigated and gained familiarity with an assortment of other Web frameworks, including Snap, CakePHP, Yaws, and UnCommon Web, as well as writing a minimalistic framework of my own in PHP.
- Provided technical support and custom scripts via media such as IRC and Web-based forums for a period in excess of ten years.
- Currently studying fields including type theory, category theory, automated proof verification, and programming language design.

SKILLS

Programming Languages: Haskell; Python; JavaScript/JScript; Java; PHP; C++; Lua; C; Objective C; Bourne shell and related (bash, zsh).

Programming Paradigms: Imperative programming; functional programming; class-based object-oriented programming; prototypical object-oriented programming; language-oriented programming; concurrency-oriented programming (Actor model); fat-client 'AJAX'-based Web development.

Operating Systems: GNU/Linux (particularly NixOS, Arch, Gentoo, Fedora, Ubuntu, Debian); Windows NT-series; Windows 9x-series.

Databases: PostgreSQL; MySQL; SQLite; SQLAlchemy Python SQL toolkit and object relational mapper.

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Web: HTML 5; HTML 4.01; XHTML 1.0; CSS 3; JavaScript; PHP; nginx Web server/reverse proxy; Joomla! PHP CMS and framework; Apache httpd; Smarty templating engine; Snap Haskell Web framework; Genshi Python templating engine; Flask Python Web framework.

Mobile: Android platform 4.0; Android SDK.

General-Purpose Applications: OpenOffice (office suite); L^AT_EX (typesetting suite); Inkscape (vector drawing); The GIMP (image-editing package); Microsoft Office (office suite).

Development Tools: emacs (editor/IDE); vim (editor); Eclipse (IDE); KDevelop (IDE); Haddock (Haskell documentation suite); PHPDoc (PHP documentation suite); JavaDoc (Java documentation suite); JUnit (Java testing suite).

EDUCATION

University of Bath (2011–present)	Currently studying MComp (Hons) Computer Science, including modules on algorithms, networking, interface design, computer algebra, programming-language semantics, and category theory.
Sussex Downs College (2009–2011)	Three A-levels: Computing ('A*'), Mathematics ('B'), and Physics ('B').
Worthing College (2006–2007)	Three AS-levels: Computing, Philosophy, and Psychology.
Hove Park Language College (2006–2008)	Japanese Language GCSE ('A*') and AS-level ('A').
Cardinal Newman Catholic School (2001–2006)	Nine GCSEs: five 'A's (French Language, Spanish Language, Double Sciences, English Language), three 'B's (English Literature, Mathematics, Religious Studies), and one 'C' (Music); one GNVQ: ICT (Merit).

PERSONAL

Interests: Programming; programming-language design; program verification; linguistics; languages; physics; mathematics; contact juggling.

REFERENCES

Available upon request.