

Ben Sinclair

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Employment

2006 - present: Computer Programmer – Iris Interactive Worked on a number of enterprise IT projects in a team and independently.

Responsibilities

Evaluate, introduce, and promote emerging technologies and ideas.

Comprehend, develop, and improve a legacy web front-end (Adobe Flash) codebase to work with a back-end, also under development.

Advise in designing network protocol and object model for same.

Full-lifecycle development of a client/server web application for managing business workflows.

Implement sundry graphical presentations using Flash.

Administer a Debian GNU/Linux server hosting several services for the office.

Evaluate new server hardware for purchase.

Achievements

Introduced the Scala language to this Java-based company and provided training to peers. The result has been reduced code volume and streamlined product development. Incrementally integrating Scala with existing Java codebase has allowed for a smoother transition.

Improved parallelism in server software using Scala's actors library without incurring excessive complexity.

Introduced the HaXe language to reduce code duplication between Flash, Flex, and JavaScript as well as getting much shorter compile times, a simpler build process, and more expressive code.

Wrote a source analysis and annotation programme in Haskell to profile Flash code.

Campaigned to management and peers to put in place a bug tracking system for programmers, which resulted in success. Now there is better visibility of progress and fewer overlooked problems.

Wrote a dependency injection container for Flash in the vein of Spring.

Education

BCompSci, University of New England, 2008.

Year 12 HSC, Mullumbimby High School, 2000.

Personal

Born on October 11, 1981.

Australian Citizen.

Open Source & Community

Original developer and maintainer of a [Haskell library](#) implementation of the [MPD network protocol](#).

Delivered an [introductory presentation](#) on Scala to [FP-Syd](#), a Sydney functional programming interest group (2008-09-18).

Contributions to the [Disciplined Disciple Compiler](#).

Reached the sixth trial of the [ICFP2008 contest](#) (solo, as 'bens').

Professional Interests

Functional programming.

Secure- and correct-by-construction software through advanced type systems.

Property-based testing (QuickCheck, ScalaCheck).

Formal methods (Agda, Coq).

Language design and implementation.

Alternative language paradigms.

General self-education (currently studying Knuth).

Last updated: July 20, 2009
<http://turing.une.edu.au/~bsinclair/cv.pdf>
References available on request.