

Brian Ballantine

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Freelance software engineer, working on mobile applications for the iPhone and Android frameworks and mobile web applications in Python and Java.

Experience

Freelance Software Engineer, New York, NY

May 2010 – Present, My Switzerland Winter, iPad

- Currently developing an iPad application for the Swiss Tourism Board's Winter Catalog.

August 2009 – Present, Proclipsing

- Using Java and the Eclipse plug-in framework to build software development tools for the Processing programming language in collaboration with NYU's ITP school.

July 2007 – Present, Interactive Art and Media Collaborator and Consultant

- Working with independent New York City artists and arts organizations like Eyebeam on various projects involving interactive and new-media art. These projects incorporate a number of different technologies such as OpenCV, C++, Arduino microcontroller programming, and Java/Processing.

November 2008 – February 2009, Families and Work Institute

- Wrote survey management tools using PHP and MySQL to support the Sloan Awards for Business Excellence project.

February 2006 – June 2006, Homestories

- Used Ruby on Rails to build a custom content management system.

October 2005 – December 2005, Large Animal, New York, NY

- Coded event invitation site using Java, Struts, and MySQL.

September 2005, BPS Solutions, New York, NY

- Designed and built parts inventory site in ASP.NET and SQL Server using an ORM system.

February 2005 – July 2005, Independent, New York, NY

- Developed Profile Tool for UnderstandingLab's NextD initiative using Flash/ActionScript 2.0.
- Made an Interactive presentation of costume artist Pyuupiru's designs in Flash/ActionScript 2.0.

Senior Software Engineer, Bug Labs, New York, NY

July 2006 – May 2010

- Head of the web development team. Responsible for creation of the corporate and community web sites using Ruby on Rails, project planning, and oversight of developers and designers.
- Team lead on the BUG SDK, a collection of Eclipse plug-ins for writing OSGi applications for the BUG and tools to manage the BUG hardware. Created tools and functionality for the SDK using Java, SWT, and JFace.
- Wrote various mobile applications and utilities for the BUG hardware in Java, C, and Python. This includes a 360 degree camera application, a mobile application to track and report live information from a moving car, a health monitor, a light web framework for mobile OSGi applications, a RESTful client library, and many others.
- Created a suite of RESTful web services and client software for interaction between the BUG hardware, the BUG SDK, and the BUG community website.

Software Engineer, IgoUgo, New York, NY

August 2005 – July 2006

- Developed features for the IgoUgo site such as the Travel Deals and Photos sections using C#/ASP .NET, SQL Server, and Javascript (AJAX).
- Worked on migration of entire site from ASP 3.0 to ASP.NET focusing on writing clean, easy to understand, code that is reusable and extendable.
- Created a reusable form submission framework based on existing Java frameworks in C#/ASP .NET following Object Oriented design principles.
- Built travel community sites integrating third party content with IgoUgo content in C#/ASP .NET.
- Created technical documentation and implementation guides for software.

Software Engineer, XWorld, New York, NY

October 2003 – July 2005

- Designed and wrote a company-wide e-commerce framework in C# .NET
- Designed and built website for law-firm Picciano & Scahill using ASP, ADO, and AJAX.
- Designed and built version 2 of United Jewish Communities' Fedweb, moving large portions of functionality from ASP pages into .NET Webservices, and creating more dynamic pages with AJAX.
- Wrote calendar application for United Jewish Communities using C# .NET and AJAX.

Software Engineer, Antenna Software, New York, NY

January 2000 – February 2002

- Built enterprise software solutions for the field service industry.
- Designed and coded MMS based middleware software for connecting any third-party back-end with Antenna's wireless front-end in XML/XSL, Visual Basic, and DOM. This software connected to CRM packages like Siebel and Clarify.
- Modeled and built a messaging server in Java, then ported to Visual C++ for use in Microsoft-only deployments.
- Designed Motorola Pagemaster front-end for field service tasks based on use-cases and client specs.
- Wrote browser-based front-end for Clarify eFrontOffice using ASP, Visual Basic/COM+, XML, and SAX in conjunction with Clarify eBusiness Framework.
- Developed ASP-hosted parts procurement middleware using Visual Basic/COM, TCP/IP, and HTTP Messaging.

Skills**Computer Languages** Java, Objective-C, C/C++, Python, Ruby, Javascript, Lisp Dialects**Technologies** Linux, OS X, iPhone/Cocoa Touch, Android, Python Web Frameworks, Ruby on Rails, Java Servlets and Web Frameworks, Stripes, PHP, HTTP/REST, Apache, MySql, jUnit, Processing, OpenFrameworks**Other** Spoken Chinese, Writing, Teaching**Education**

Tufts University, Medford, MA

BS Computer Engineering, May 1999, 3.5 GPA, Magna Cum Laude