

Bart Robinson

Software Engineer

Bart Robinson

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Skills

Primary Languages: Python, C, C++, JavaScript

Other Languages: Java, C#, SQL, HTML/CSS, XML, and many others

Technologies: asyncio, Boost, Bootstrap, jQuery, MongoDB, .NET, numpy, Qt, Twisted, WebSockets, Win32, and many others

Tools: Mercurial, Trac, Sphinx, PyCharm, Komodo, Visual Studio

Experience

ON Semiconductor (formerly Aptina) / Principal Test Engineer

APRIL 2012 - PRESENT, MERIDIAN, ID

Developed and supported on-site distributed processing system for testing device images. Two sites, dozens of hosts, hundreds of cores, TB/day of data. In Python with Twisted.

Designed custom lossless compression algorithm for image data. 30% savings in bandwidth and storage costs over previous PNG-based solution. In C++ and Python.

Developed suite of cooperating desktop image analysis applications. In Python and JavaScript with asyncio, numpy, Qt, WebSockets.

Other projects: secure automated software update service, RESTful service for managing image analysis process pools, web-based probe stepping table generator.

Southern Trelawny Environmental Agency / Technical Advisor

DECEMBER 2010 - APRIL 2012, ALBERT TOWN, JAMAICA

Provided networking, website, GIS, and other technical assistance to conservation NGO.

Projects: website rewrite, oral history archive and documentary, community computer literacy classes.

United States Peace Corps / ICT Volunteer

MARCH 2010 - DECEMBER 2010, JAMAICA

Taught IT classes at vocational school.

President of the Information Technology Advisory Group; provided technical advice and organized digital resource sharing between Peace Corps Volunteers.

Bold Technologies / Software Engineer

JULY 2007 - DECEMBER 2009, COLORADO SPRINGS, CO

Bugfixes and new features for Windows-based automation system for alarm central stations. In C++, C++/CLI, VB.NET, VB 6, and MS SQL.

Developed automated billing feature with Quickbooks gateway.

Internal utilities and test applications for deployment and support.

USDA Agricultural Research Service / Research Technician

MAY 2006 - NOVEMBER 2006, DUBOIS, ID

Developed tools and processes for analyzing aerial photographs and other scientific data. In Java, R, and ArcGIS.

Developed custom database and front-end for sheep genetic data with Apache, MySQL, and PHP.

Micron Technology / Software Engineer

JUNE 2004 - JANUARY 2006, BOISE, ID

Scriptable GUI tools for interactive benchtop imaging device tester. In C++ with Python, Matlab, and VBA.

Multithreaded image processing library and statistics engine in C++.

Micron Technology / Intern Software Engineer

SUMMERS 2000 - 2003, BOISE, ID

Worked on Windows desktop application for testing DRAM and Flash devices. In C++ with MFC.

Projects included common design pattern base class library and custom scripting language with Flex/Bison.

Education

Yale University / B.S., Computer Science

FALL 2000 - SPRING 2004, NEW HAVEN, CT

3.50 GPA with Distinction in the Major.

Senior thesis on developing a GUI toolkit for the Haskell language.

Other

See personal website at <http://bartrobinson.com>.

Interests include running, hiking, photography, board games, and developing object-oriented, late-binding, web-first, polyglot RPC protocols.