

ROBERT KIRALY, SOFTWARE DEVELOPER

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BACKGROUND

I'm a flexible developer who's completed hundreds of successful projects in dozens of technical areas.

I was the sole maintainer at one point for software that counted half of the U.S. Vote. I did the initial design of one of Adobe's network protocols. I've worked with most UNIX platforms, including BSD, Solaris, and Linux. I've created my own Linux distro for CLI developers; 1,800 packages were patched and configured by hand. I've customized standard distros as well.

I was High Honors and Honors in Math and Computer Science at U.C. Berkeley. I leverage Open Source to reduce costs. I'm considered to be good at writing and analysis of problems. I've taught adults and children, done recruiting and tech support, vetted documents for CEOs and Board members, and served in a number of other roles.

SKILLS

Foundation skills: 35 years 'C', 35 years UNIX, 35 years shell, 30 years Agile, 25 years Perl, 25 years technical writing, 20 years Linux, 20 years basic webdev.

Additional skills: AWS EC2, Bash, Build, Debian, ETL, Forensics, FOSS, GIMP, HTML, Investment Portfolios, JavaScript, jQuery, Linux, Lua, MariaDB, Mint, MySQL, Open Source, PaaS, Perl, PHP5, Point of Sale (POS), Python, Recruiting, Regular Expressions (Regex), SaaS, Shell, SQL Server, Ubuntu, UNIX, Tcl/Tk, UNIX, Teaching, Tech Support, Virtual Agent, VPS, Writing, XML.

EXPERIENCE

Firehouse Subs

Jacksonville, Florida

Jun 2016 – Jun 2016

I did SQL Server work for Firehouse Subs. In particular, I restructured the chain's transactions database and produced reports reported to sales of different types. I'm still associated with the firm on a "1099" basis.

The database restructuring involved deduping a significant amount of data (approx. one-half billion rows) using a Perl DBI tool of my own design and adding standard server-side optimizations.

Skills: Perl, SQL Server.

Mr. PHP

Hackham, South Australia

Nov 2015 – Mar 2016

I did a few small webdev projects for Mr. PHP in South Australia. Tasks included an XML import feature for OpenCart, enhancements to a CakePHP-based system for auto repair shops, and content fixes and updates for a medical website. As part of this, I contributed to upstream OpenCart. I may do further small projects for Mr. PHP in the future.

Skills: CakePHP, JavaScript, MySQL, PHP5, Shell, XML.

Luckys Market

Niwot, Colorado

Nov 2014 – Oct 2015

Luckys was a small but growing supermarket chain. I was employed by the corporate office, during a transitional period, as the chain's sole software developer. These were my projects:

(1) I created a web framework based on PHP5, MySQL, Bootstrap, and jQuery. The framework allowed managers to view and edit POS data remotely through a web interface.

(2) I analyzed the chain's processes and reimplemented five of them outside the POS system: Promotions, Cost Changes, Price Changes, New Items, and Scanbacks (vendor-to-chain rebates). My software reduced the workload of the chain's data-entry team by 90%.

(3) I created a new pricing analysis tool. This tool reported the effects of vendor cost changes based on product movement numbers and added recommendations for retail prices based on price-point rules and profit margin goals.

Skills: MySQL, MS-SQL, AWS EC2, MS-Azure, MS-Excel, Point of Sale, Perl, shell, PHP5, HTML, ODBC

If you connect with me at LinkedIn, you'll see a recommendation for the Luckys work there. Quote: "The one piece I was missing was a developer that could handle anything from programming and web support to SQL development. Bob was able to do it all. Bob always looked at the big picture, figured out the root causes, and was always loyal to the business, to his team, and to me."

ATXware

Austin, Texas

Oct 2014 – Mar 2015

Subsequent to my August 2014 presentation to World Health Industries (WHI), discussed in the WHI section below, WHI decided to set up a startup in Austin, Texas named ATXware.

(1) I assisted with the purchase of colocated servers and setup in a secure data center

(2) I researched options related to HIPAA compliance and offered related recommendations

(3) I produced a budget for the startup and proposed a roadmap related to the company's goals

Skills: HIPAA, Linux, IT, project management, technical writing

World Health Industries

Jackson, Mississippi

Aug 2014 – Aug 2014

In August 2014, I was asked to conduct an analysis for the Board of Directors of World Health Industries that the Board viewed as high-priority. There were concerns related to internal stresses and questions related to the company's source code.

I interviewed managers at different levels, the company's lead developer, and IT staff. I then analyzed the company's IT and software development processes and offered recommendations related to a complete reorganization.

The result was a 15-page report that was presented to the Board only 96 hours after my arrival; I wrote it in a single 24-hour period immediately before the presentation. The document was reviewed closely by the Board and was well-received.

Skills: Linux, WordPress, IT, Project Management, webdev, technical writing

Unnamed startup

Emeryville, California

May 2014 – Sep 2014

In mid-2014, I was offered a position in a startup with a Salesforce-related business model. These were my tasks:

- * Ruby on Rails GUI work
- * Back-end Salesforce API code
- * Teaching web development to a junior developer
- * Fixing problems with git branches
- * Refactoring legacy code
- * Rehosting the venture from Heroku to AWS EC2

The AWS EC2 work was the most interesting task. Heroku was a dead-end, but developers liked it because there was a “push to play feature”; if you did a git push, Heroku deployed automatically. So, I created a new AWS EC2 instance, moved everything there, and wrote scripts to implement a miniature Heroku. I had limited experience with some of this, but finished in one day.

Skills: AWS EC2, Perl, shell, Ruby, Salesforce, teaching, technical writing, basic webdev

Geo-Temp **Newark, California** **Aug 2003 – Mar 2015**

I was associated on a part-time basis with a startup named Geo-Temp from 2003 to 2015. This was the venture named “Geo-Temp” that was run by Dr. Nancy Del Grande of Lawrence Livermore and not the staffing agency named “Geotemps”.

Geo-Temp sought to market services based on dual-band infrared data as interpreted using the principles of thermal inertia. Applications included the detection of underground tunnels, pockets of natural resources, and flaws in bridge decks. My role was to vet abstracts for technical journals, to edit proposals and reports, to work with spreadsheets, and to assist with IT.

Technically, I still assist Geo-Temp with IT, but the company's current focus is on international projects and I don't play a direct role in those.

Skills: Technical writing, MS-Excel, mathematics, GIMP, Octave

noHold **Milpitas, California** **Mar 2013 – Dec 2013**

noHold was a startup which had one core product, a virtual agent that was tailored to suit the needs of different corporate customers. These were my tasks:

- * Reproduce missing source code
- * Documentation for potential buyers of the company
- * A responsive web-app interface to the virtual-agent API used by the core product
- * Bug fixes for a migration from 32-bit Windows to 64-bit Windows
- * Salesforce support for the core product
- * Business development

Skills: MS-SQL, NLP, technical writing, Visual Studio, jQuery

RapidBlue **Helsinki, Finland** **Dec 2012 – Dec 2012**

This was a short research project related to MySQL and scalability. There are details related to this project online at:
<http://oldcoder.org/general/websystems/sharding/>

Skills: Linux, MySQL

Sleek Media **Ayrshire, Scotland** **Jul 2012 – Jul 2012**

This was a short full-stack webdev project which was unusual in that it was based on a Perl framework. Perl is fine for webdev, but fell out of favor in the 2000s. The company had had the framework developed by another firm and needed bug fixes made subsequently. A review of my work on this project is online at the following link:

<https://www.elance.com/s/oldcoder/job-history/?t=1>

Quote: “OldCoder was meticulous in his communication. His knowledge of the field was second to none. He was a pleasure to work with and his calm, methodical approach served to provide focus in a time of stress and tight deadlines.”

Skills: Linux, Perl, shell, Web development

Unnamed startup **Cupertino, California** **Jun 2011 – Sep 2011**

In mid-2011, I was asked to be a recruiter for the head of a failed power-grid company in Silicon Valley. The head wanted to launch a new venture. He had me recruit both for the new venture and as a separate business to raise cash.

Skills: Recruiting

Unnamed startup **Mountain View, California** **Jan 2010 – May 2010**

In 2010, I was asked to serve as architect for a startup that planned to sell services to attorneys related to the analysis of U.S. Patent Office data. The idea was to provide odds related to reexaminations based on a probabilistic model.

The USPTO was attempting to monetize patent data and therefore set up technical barriers to frustrate attempts by the public to obtain data at no charge. One of my tasks was to design a framework that could be used to obtain USPTO data despite the barriers.

I used a few dozen Tor processes running in parallel to bypass IP-address restrictions and a semi-autonomous Perl agent to persuade the USPTO that human interactions as opposed to automated downloads were taking place. The Perl agent downloaded USPTO web pages, extracted gigabytes of data, and moved it into a MySQL database.

Skills: ETL, HTTP, MySQL, Perl, shell, XML

Northrop Grumman **San Diego, California** **Feb 2004 – Feb 2009**

I worked on Northrop Grumman's MILES fighter-jet project. The codebase included both new modules and modified Open Source frameworks. The core was a Perl server, written from scratch, that collected binary data from upstream devices, stored data using SQL, and relayed it to client software as XML over HTTP. Client software included both standard web browsers and a Java GUI.

The system generated its own documentation and outputted the documentation in HTML, PDF, and text format. The project included a hardware simulator written in Perl. MySQL, PostgreSQL, and SQLite3 were all supported as database back-ends. My primary contact stated that he was “extremely impressed by the quantity and quality of your work”.

Skills: C, Perl, shell, Java, MySQL, PostgreSQL, XML

Cleanscape Software **Palo Alto, California** **Jan 1999 – Sep 2003**

I was the sole engineer employed by a Silicon Valley dot-com named Cleanscape Software for four years, excluding Board members and contractors.

My responsibilities included bug fixes, manuals, mock-ups for investors, GUI and Internet layers for old products, design of new products, databases, IT, web and FTP sites (both servers and content), support calls, sales calls, marketing, and management of contractors.

My work-week ranged up to 120 hours.

Skills: Most areas of software development

Information Processing Techniques

Palo Alto, California

May 1981 – Jan 1999

I executed hundreds of successful projects at an outsourcing firm in Silicon Valley named IPT for two decades.

IPT had standard products, including the official compilers for some Data General and Rockwell systems, assemblers, debuggers, source-code analyzers, and a word processor. I wrote, worked on, or managed many of the tools in question.

The company also did custom projects for firms or agencies such as Adobe, Boeing, Data General, Disney, Motorola, Rockwell, and the Defense Technical Information Center.

On the custom projects side, I was the sole software support engineer for the system that counted half of the U.S. vote one year. I was also the sole software developer for the device that the U.S. Government used for a decade to convert its stock of microfilm into microfiche. Additionally, I did the initial design for one of Adobe's print protocols.

Other projects included GUI layers for CLI tools, embedded operating systems, a custom Linux distro, a Photoshop ECG plugin, email client software, multimedia transcoders, anti-virus software, custom servers, electronic circuit netlist tools, refactoring of legacy code, and PC BIOS work.

Skills: Most areas of software development

EDUCATION AND GENERAL

I have a double bachelors degree in Mathematics and Computer Science from U.C. Berkeley. The Math degree is High Honors and the C.S. degree is Honors.

I'm a National Merit Scholar as well.

I've volunteered for Services for Brain Injury and other groups. My hobbies include writing and gamedev; I contribute bug fixes and enhancements to a promising Open Source project named Minetest.

I've also taught software development both in-person and in IRC.

In 2014, I tried teaching for No Child Left Behind. I raised a girl's test scores by 20 points. To do this, I made up a new spelling song. The old one didn't seem right.