

Gilbert Heulton ; Sr. C Linux Software Engineer; UNIX, sh, SQL, perl

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Availability: Contract has ended. Employment Authorization: US Citizen. Security level: none expect to pass.
Web links: <http://stackoverflow.com/users/693294/gilbert> top 10% poster; Github: <https://github.com/GilbertsHub>

SUMMARY:

Experienced egoless senior C developer with recent focuses on backend UNIX and Linux environments. Also currently expert in perl and UNIX shells with SQL. Years of working with remote teams.

Diverse software experiences over the full SDLC from requirements gathering, product architecture, documentation, implementation, installation and training. Used to distributed teams across corporate structures with technical and non-technical people. Professionally raised in a culture of teamwork and customer support. Also very strong in perl and Unix shell scripts. Writes well received documentation.

Attention to detail thinker to solve problems. Review chart at <http://resume.heulton.net/Foyer.php> to speed matching.

SKILLS LIST:

Expert: C, Linux, UNIX, shell scripting (bash, ksh, gawk, awk), perl-5, Oracle SQL.

Strong: gcc toolchain (not a .PHONY), UNIX C compilers and tools, MySQL, REST, XML. Fair: PHP, EDI, AutoSys remote client scripts. Download and study assorted C standards over the years.

Intermediate: JavaScript, HTML/CSS, PHP, Restful APIs, various MQs, git, EDI X20, VirtualBox, VMware.

Analysis: Delights in working out logic to new or failing programs and attention to details to work it out.

Long-term: Distributed applications, distributed programming, clustered systems, debugging distributed applications, heavy multiprocessing, globally distributed teams. Documentation and mentoring. Web meeting and chat tools. Learning and changing mind based on new knowledge.

Web tools: Atlassian Bitbucket, Confluence and Jira. Also Github, Gitlab, and Jenkins, Bamboo.

Special note: aware of 2038 problem and solutions (was technical admin and tech lead for AT&T Labs Y2K). Partly remote to fully remote positions.

EMPLOYMENT HISTORY:

Job Company **Verizon** City **Remote NJ ; Feb-2022 to Aug finance cuts; 100% remote** Pyramid Consulting, Alpharetta, GA

Job Title: Senior C Backend Developer consultant till budget cut surprising my area management.

Skills: C (data structures), Solaris CC compiler and dbx, Oracle SQL, Solaris, shell scripts, RESTful APIs, MQ, git, GitLab. . Agile development with Atlassian tools including Confluence, and Jira.

- Enhancements and fixes to distributed C applications spread across regional server clusters.
- Selected for working priority changes on legacy applications, some of which no one who knew about.
- Helped more junior programmers with onboarding and assignments.
- Using python rather than perl or shells for some throw-away scripting.

Job Company **AT&T Labs** City **Remote ; Jul-2021 to Dec-2021; 90% remote** Xaxis, Freehold NJ via DXC/Luxoft

Job Title: Senior C/Linux Developer consultant. Compliance.

Skills: Skills: C, Linux, RHEL, bash, ksh, perl.documentation.

- Help manage disk storage system for production on disk too full alerts. Update related documentation.
- Update Daytona DB Cymbal code to capture an additional column on incoming feeds.
- Enhance existing data barn utilities to help migrate report and maintenance applications utilities clearing obsolete files, monitoring blob use from Azure cloud using azcopy, and reports of recent disk usage.

Job Company **Message Systems, Inc. ; Remote; Jul-2020 to June-2021; 100% remote**

Job Title: Software Developer SMTP Delivery

Skills: C, perl, Lua, bash, AWS (includes EC2 spin up of AL1 Linux boxes, Athena SQL, use build pipelines), REST APIs and Postman, Macbook Pro Laptop, Strong use of Jira, Kanban, and Confluence.

- Enhanced features and fix bugs in MTA product and supporting apps using C, shell scripts, perl, and Lua.
- Write shell scripts to help testing and automate repeating activities.
- Work with people across company to understand requirements. Update perl and Lua tests to verify changes through all environments for continuous delivery.
- Connect to Restful APIs as well as some work on them.
- Make test and production builds and deployment. AWS environment using Athena and Circonus.
- Use Atlassian cloud based Jira ticketing and Confluence documentation tools.
- High-volume network. Used Ansible to run commands and copy files across host groups in clusters.
- Created and improved documentation for both Google and Atlassian products.
- Write documentation, including on boarding to mostly help me but also help others.

Job Company **Energy Harbor; Remote ; Mar-2020 to Aug-2020; 100% remote** via DXC Technology via BC Forward

Job Title: Sr. Linux Shell scripting consultant in energy market.. Short term contract extended multiple times.

Skills: perl, bash, ksh, csh, RHEL, Oracle SQL, Apache configurations. Chaotic environment.

- Helped finish urgent migration of customer application suites from AIX to Linux environments.
- Quickly completed, largest group of migration tasks for migration of critical legacy AutoSys shell script suites from AIX to Linux environments due to company split-up. “lift and shift” with modifications and some greenfield server deployments.
- Discovering and documenting layout of large undocumented code base.
- Sped migrations by writing perl and shell scripts to scan for change candidates and automating changes.
- Saved time and improved results by adding automated tests in areas without them.
- Discovered a number of errors left in scripts previously migrated to production and proposed fixes.
- Documenting and mentoring and making notes for moving changes to production.

Job Company **Estee Lauder Aveda Brand; Manhattan NY Remote; May-2019 to 2019-Oct RIF; 90% remote**

Job Title: Senior Perl backend Developer (consultant); Position Estée Lauder Aveda brand loyalty.

Skills: perl-5, mod_perl, Apache, templates, MVC, HTML, Oracle SQL, REST APIs, JSON, shell scripts, git, and Jenkins. Atlassian tools including Confluence, Jira, and Bitbucket.

- Helped to finalize migration of customer experience REST API with JSON payloads to new vendor.
- Researched and fixed bugs in MVC “perlgem” perl code base and templates.
- Changed templates generating HTML for front end.
- Used Chrome Developer Tools to study resulting web pages and CSS cascades.
- Debugged and tested RESTful API and code. Use of POSTMAN application to test.
- Greatly improved efficiency of searching and extracting large log files for failure information, or prove lack of same. File format and other considerations made this a non-trivial task beyond simple greps.
- Researched very legacy and obscure perl-5 code for bug fixes and enhancements.
- Documented procedures and information needed to properly do work to reduce future losses in time.

Job Company **Verizon Wireless ; Piscataway NJ ; Oct-2016 to Apr-2019 ;** via Datanomics ; Red Bank NJ

Job Title: C Software Engineer (consultant); Position: Point Of Sale backend C and PRO*C Developer

Skills: C (data structures), Solaris CC compiler and dbx, Oracle SQL, Solaris, shell scripts, perl, REST, SOAP, RESTful APIs, HTML, MQ, git, and Jenkins. Agile development with Atlassian tools including Confluence, Jira, and Bitbucket.

- Worked on distributed C applications within the backend spread across regional server clusters.
- Completed difficult migration of warehouse and inventory C code from legacy platform to SAP based system using XML API.
- Implemented C backend code for new multi-device trade-in option using complex SQL to work within the existing DB and legacy code and consolidating shipping to save money.
- Improved store pickup processing for better customer and manager experiences. This included improving emailing to properly respecting time zones of stores and customers rather than using Eastern time.
- Perl-5 code, lots of it, to scrape logs and generate sample data to support other operations, Perl code

- was behind multiple reports being emailed out to different front-line and management level people.
- Tracked down production failures in X.25 EDI interface used to notify customers of progress of shipments. Wrote program to salvage log and DB data to determine which customers to send “catch up” mail to.
- Used my notes to speed up mentoring and on-boarding of new backend developers.
- Generated shipping events in X.25 EDI format for use in lower test environments to be able to test shipment notifications.
- Continuous enhancements, debugging, and fixing of many backend daemon services. Critical fixes.
- Extensive middleware, X.12 EDI, and TCP/IP communication with other systems using XML, SOAP, RESTful APIs, Oracle Message Queue, IBM Websphere MQ, distributed computing and straight TCP/IP.

Vonage Networks ; City Holmdel, NJ ; May 2016 to Jul 2016 ; Company via SmartLink ; Annapolis, MD

Job Title: PHP Software Developer (consultant); Position: integrating new business acquisitions.

Skills: PHP, perl-5, Linux, PhpStorm, MVC, VirtualBox, shell scripts, MySQL, HTML, CSS, git, Jira.

- Strengthened customer FTP portal passwords in difficult legacy perl program customers used to provide portal call records. Much exploration and discovery required due to lack of useful information.
- Reduced “swivel seat” operations by integrating new acquisitions into existing PHP web pages.
- Debugged PHP code and generated web pages using PhpStorm and Chrom Development tools.
- Reduced mentoring times for new hires using my notes that became “amazing documentation”.

ISenpai ; City Manassas, VA 100% remote ; Mar 2016 to May 2016 ; Company via Kforce Federal Contracts

Job Title: Perl Subject Expert (consultant); Position: short “surge” support for improving net security products.

Skills: Python, perl, CentOS, MongoDB NoSQL, NIST.SP.800, bash, PowerShell, documentation, Gitlab, Jira.

- Heavy development burst of unclassified network based security project under much of NIST.SP.800.
- Recruited for Linux/perl skills though technologies actually used went far afield from those skills
- Bundled open source network tools in python driven modules to provide more unified and consistent security.
- Last week surprise included the creation of Linux and Windows installation bundles and documentation at end of project. Myself and one other were the only people volunteering to write the documentation.
- Was invited to come back for a second “surge” but had other commitments.

IDT ; City Brick, NJ ; Nov 2015 to 2016 Jan ; Company

Job Title: Linux Engineer for package building and system provisioning software.

Skills: PHP, shell scripts, Lubuntu Linux, Debian packaging, X window configurations, AWS.

- Small team developing new point of sale product targeting existing customers,
- Makefiles to compile code and build Debian packages for publishing on Amazon Web Server (AWS S3).
- Wrote installation scripts to configure hardware and Linux software, including touch screens under X. Bash shell and php scripts.on Amazon Web Server (AWS S3).

AT&T Labs ; City Middletown, NJ ; Jun 2013 to Sep 2015 ; Company via Insys Group, Rochelle Park, NJ

Job Title: C Linux Developer (consultant); Position: BE developer monitoring cell tower performance. DevOps.

Skills: C, gcc toolchain, Linux, Solaris, HP-UX, Red Hat Enterprise, ksh/bash scripts, join(1), perl-5, distributed applications, read and transform data at terabyte network volumes, SQL, multi-processing, threads, regression tests.

- Performance improvements to C and other applications and report generation, sometimes by 30%.
- Clean incoming dirty CSV files using perl-5 enough to successful inserts into database.
- Automated installs of apps for developer for both speed and quality using shell scripts.
- Use of huge Daytona Database for AT&T cell tower call records monitoring network performance using C and Daytona’s native Cymbal language as well as Daytona’s SQL front-end to Cymbal.
- Informal “contests” with coworker who had worked with, and was trained by, David Korn about the who knew more about the ins and outs of the ksh shell. He “won” more than I did, but we both learned a lot.
- Automate securely moving files between development systems with careful sshs configurations.
- Rotated into DevOps during staffing reductions to keep me on.
 - Configured and maintained server daemons and applications. Started automating some with scripts.
 - Extracted reports from largest database I have ever used driven by Daytona DB.
 - Improved automation of adding and removing users from clusters of systems.

Verizon Wireless ; Warren, NJ ; Mar 2011 to Jun 2013 ; via Datanomics. Bridgewater, NJ

Job Title: C Developer (consultant); Position: Point Of Sale backend C Developer

Skills: C, shell scripts, HP-UX, Oracle SQL, Pro*C, perl-5, Restful APIs, VMS, VMS RDB, COBOL, EDI, VirtualBox.

- Helped migrate VMS backend C, COBOL, and DCL applications to replatform onto HP-UX UNIX server. Agile.
 - Automated repetitive source changes using perl tool. Included source syntax, #includes, and call changes.
 - Reduced code changes by writing C library to perform some VMS actions on UNIX without changing calls.
- Slashed time for testers, developers, and others, spend identifying causes of stuck test orders using perl based web server reporting status of test orders and virtual inventory,
 - Nominated for employee of month by lead tester in response to time it saved his group.
- Intensive MQ operations (C APIs to MessageQ, MQ Series), TCP/IP, RESTful APIs, SOAP, XML.

Numara Software ; Woodbridge, NJ ; Sep 2008 to March 2011 ; ; via Consultis of Tampa, FL

Job Title: Professional Services (consultant); Position: Professional Services FootPrints full stack developer

Skills: Windows, Linux, Solaris, FreeBSD, perl, SQL (Oracle, Postgres, MySQL, SQL Server, ...), HTML, LDAP, VMware, Virtual Box, JavaScript, shell scripting, make, Apache & ISS web servers, documentation.

- Extensive work on perl product. Grew regression test library using perl's Test::More and shell scripts.
- Proposed changes that were adopted into both the FootPrints installer and product style guide.
- Wrote SOWs after estimating effort for customer customization requests, discovering requirements.
- Saved account by remote debugging via Webex for severity-1 problem on remote customer system.

Avaya ; Lincroft, NJ ; Jan 2008 to July 2008 ; 6-month ; via Case Interactive of Farmingdale, NJ

Job Title: C Developer (consultant); Position: Migrate and replatform C and shell application on new servers

Skills: HP-UX, C, gdb, make, gcc toolchain, shells, Linux, HP-UX, perl-5 LWP, DBI::Informix, Net::FTP, Module::Build, IBM MQ Series, Informix SQL, ISQL, team environment, project leadership.

- Replatformed legacy C server source to new servers. Perl app to automate GPS updates from vendor.
- Migrated legacy DB to new Informix DB server using CLI tools I wrote to extract, transform, and load data.

Cheetamail ; Manhattan, NY ; May 2007 to Dec 2007 ;

Job Title: Perl Developer; Position: Full stack developer for Internet SaaS Email Provider

Skills: Perl, DBI, Apache, TemplateToolkit, mod_perl, shells, XML, and SQL, UTF-8, Internationalization I18N.

- Added features to new customer GUI for e-mail campaigns. Worked across several development teams using home-grown MVC class, mod_perl debugging, Oracle SQL, templates, and JavaScript.
- Created documentation on system internals appreciated by developers and other advanced users.

Vonage Networks ; Holmdel, NJ ; Aug 2006 to April 2007 RIF ;

Job Title: Software Developer; Position: Full stack developer C, perl, JavaScript, TCP/IP networking, SNMP.

Skills: C; Perl: LWP, DBI; RH Enterprise Linux; Solaris; make; shells; package building; rrdtool; Source Version Control, CVS, Subversion, OpenNMS; SOAP; network MIBS, rdttool, documentation, requirement

- Became OID/MIB SME for team scanning VOIP network for new devices, adding to OpenNMS reports.
- Created perl web server cgi-bin to analyze SNMP scan logs to report on device trees.

Lumeta Corp. ; Somerset, NJ ; Mar 2004 to Jul 2006; via Key Data - March 2004 to Aug 2005

Job Title: Perl Software Developer; Position: IPSonar servers, automated builds, FreeBSD kernel & installer.

Skills: perl (LWP, mod_perl, CGI), refactor, SSL/TLS, C, gcc toolchain, security certificates, shell scripting.

- FreeBSD kernel internals and building images and custom releases for internet appliance products. Resolve kernel panics. Submitted driver bugfix adopted by FreeBSD.
- Split large server into report and sensor servers exchanging serialized objects across security zones.
- Reduced Certificate creation time and improvements to internal Certificate Authority system.
- Ongoing build improvements to the point of automated builds using shell scripts, perl, and cron with emailed failure reports. Started PHP work to start basic web access to build system.

EDUCATION:

California State Fullerton: major Computer Science. Fullerton College: major Electrical Engineering.