

Gilbert Heulton ; Sr. Shell Scripting Software Engineer; perl, SQL, Backend, Linux, UNIX, C

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Availability: Contract has ended. Employment Authorization: US Citizen. Security level: none yet but expect to pass.

Web links: top 13% poster; Github: <https://github.com/GilbertsHub>

SUMMARY:

Egoless serious shell developer in backend UNIX and Linux environments with very heavy shell scripting, mostly in bash and ksh. Years of working with remote teams. While this resume drops much non-shell work I'm also currently expert in perl, SQL, and C. Actually worked a little with David Korn at AT&T Labs.

Diverse software experiences over the full SDLC from requirements gathering, product architecture, Professionally raised in a culture of teamwork and customer support. documentation, implementation, installation and training. Used to distributed teams across corporate structures with technical and non-technical people. Give great attention to detail so solve problems. Partly remote to fully remote positions.

SKILLS LIST:

Expert: Linux, UNIX, shell scripting (bash, ksh, gawk, awk), Oracle SQL, perl-5 (Object Oriented, POD),
Strong: perl packages (Template Toolkit, CGI, CPAN) and mod_perl, learning large SQL DBs, MySQL/Marina, REST, XML, Cron. Fair: PHP, EDI. AutoSys remote client scripts.

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

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

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

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

EMPLOYMENT HISTORY:

via company **Computershare** co. Remote IL ; Dec-2023 to Jan-01; 100% remote

via Macrosoftinc.com

Job Title: Perl Developer Consultant

Skills: perl, Windows 10, Windows 10, git command line

- Help finish complex converter for many new report types from existing bank. Scraped information and setting report types for down stream processing. Legacy .afp files are received and pdf files formatted to latest requirements are produced for bulk mailings.
- Code committed for a very successful code review once my debugging and pier reviews complete.

via company **EHI Holding** co. Remote VA ; Mar-2023 to Aug 31 cut down; remote

via NTTData.com via NLBTech.com

Job Title: C, Pro*C, shell software consultant

Skills: AIX 7.2, C, Oracle SQL, Pro*C, ksh, bash, make, IWS, git, GitLab, Atlassian Jira and Confluence.

- Closing part of massive HP-UX to AIX migration for many hundreds of shell scripts, C, and Pro*C apps.
- Shell scripts to automate repeated migrations to get work done more quickly.
- Shell commands for QA and production operations.
- EHI management quietly told me they wished I was in at the beginning of the project as they expected a lot of pain could have been avoided in the early stages of the project.
- Helped other developers research difficult problems or showed them new tricks they did not know.
- Commit changes to BitBucket. Review pull requests. Wrote shell tools to help me submit.
- Work with IBM Workload Scheduler (IWS) on AIX, using shell commands.
- Consolidate scattered documents so they are easier to find.
- Showed interested parties using unknown or underutilized UNIX tools and migration tips to become more

efficient at doing common work. Included vim, ksh, nawk, and avoiding ssh session timeouts on idle.

Job Company **ECS Tuning** City **Remote OH ; Aug-2022 to Sep-2022; 100% remote** Beacon Hill Staffing, Wadsworth OH

Job Title: Perl Developer consultant.

Skills: perl 5, perl OO, perl Test::More, perl Moose. MySQL, MySQL Workbench, sqitch, bash shell, git, GitLab. Ubuntu Linux. Atlassian Jira and Confluence. Google office suite.

- Created new perl module allowing a single **use** statement to old code to properly determine environments of prod, stage, dev, are independent of Linux distributions. Adds new functions to make it much easier for new code to make tests.
- Add features to existing perl code to enhance inventory searches on administrative pages.
- Made new Test::More perl scripts and corresponding shell scripts for unit testing.
- Writing documentation on the undocumented items causing the most confusion.

Job Company **Verizon** City **Remote ; 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: ksh shell scripts, Oracle SQL, Solaris, RESTful APIs, git, GitLab. . Agile development with Atlassian tools including Confluence, and Jira.

- Lots of shell work, vast ksh, to support C work.
- Shell scripts to control tests, run production and UT operations. Shell tools for committing code.
- Selected for working priority changes on legacy applications, some code which no one who knew about.
- Helped more junior programmers with onboarding and assignments.
- Lesser: Lots of C work: C (data structures), Solaris CC compiler and dbx, MQ,

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

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

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

- Ksh scripts to help manage disk storage system for production on disk too full alerts. Update related documentation.
- Enhance existing data barn utilities, a lot of ksh, 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;** City **Remote ; Feb-2020 to Jun-2021; 100% remote**

Job Title: Software Developer SMTP Delivery

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

- Enhanced features and fix bugs in MTA product and supporting apps using perl, shell scripts, C, and Lua.
- Update perl and Lua tests to verify changes through all environments for continuous delivery.
- Write perl and shell scripts to help testing and automate repeating activities.
- Work with people across company to understand requirements.
- Make test and production builds and deployment. AWS environment. Use 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;** City **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.
- Contract kept being extended until reasonable work I could do was done.

- 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.
- Sped migrations by writing perl and shell scripts to scan for change candidates and automating changes.
- Discovering and documenting layout of large undocumented code base.
- 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 Summary **Estee Lauder Aveda Brand ; Manhattan NY Remote; May-2019 to Oct-2019 RIF; 90% remote**

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

Skills: OO 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.
- Used Chrome Developer Tools to study web pages and CSS cascades after changing HTML templates.
- Debugged and tested RESTful API and code. Use of POSTMAN application to test.
- Greatly improved efficiency of extracting from large log files for failure information or prove lack of same.
- Researched very legacy and obscure perl-5 code for bug fixes and enhancements.

Job Summary **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, OO perl, Rest. SOAP, RESTful APIs, cron, HTML, MQ, Jira, git, and Jenkins. Agile development with Atlassian tools including Confluence, Jira, and Bitbucket.

- Worked on distributed C applications and supporting shell commands within backend servers spread across regional server clusters.
- OO 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 scripts to salvage log and DB data to determine which customers to send “catch up” mail to.
- Continuous enhancements, debugging, and fixing of many backend daemon services. Critical fixes. Cron.
- Lots and lots of C programming.
- Used my notes to speed up mentoring and on-boarding of new backend developers.

Job Summary **Vonage Networks ; Holmdel, NJ ; May 2016 to Jul 2016 ;** via SmartLink ; Annapolis, MD

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

Skills: PHP, perl-5, Linux, PhpStorm, MVC, shell scripts, VirtualBox, 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.
- Shell script tools for moving and reformatting data.
- Reduced mentoring times for new hires using my notes that became “amazing documentation”.

Job Summary **ISenpai ; Manassas, VA 100% remote ; Mar 2016 to May 2016 ;** 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.

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: OO perl (LWP, mod_perl, CGI), refactor, SSL/TLS, C, gcc toolchain, security certs, heavy shell scripts.

- Split large perl server into report and sensor servers exchanging serialized objects across security zones.
- Improved field upgrades to the point customers could often upgrade without Lumeta personnel present.
- Reduced Certificate creation time and improved tracking on 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