Motivated and experienced Linux kernel and former full stack web developer

**SKILLS**

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| --- | --- |
| Front-End: | Web Design, CSS, Bootstrap, Google Materialize, jQuery, JavaScript |
| Back-End Development: | RESTful development, Postman, Web Payments / Stripe, Ruby on Rails, unit testing, Python, AWS S3, Linux (Ubuntu & Red Hat RHEL), Git, Github/Gitlab, DevOps: Ansible |
| Linux Kernel Development: | C, Python, Bash, Machine Architecture, Real-Time Operating Systems (RTOS), learning Rust, please ask for a list of patches contributed to the Linux kernel |
| Published Works: | [*Deploy Rails BlueBook, 2014*](https://leanpub.com/deployrailsbluebook), [*Automate PHP Deploys, 2014*](https://leanpub.com/automatephpdeploys), [*core\_timer*](https://github.com/jbwyatt4/kernel-work/tree/master/core_timer), |

**ACCOMPLISHMENTS / PROJECTS**

* Created a DevOps Training Course Site, [WyattTechCourses.com](https://WyattTechCourses.com/), written in Ruby on Rails with AWS for the back-end and Bootstrap/jQuery for the front-end. Offered enterprise features such as group purchasing, revoking, auditing, and, generate PDF certificates of completion
* Dotfile manager was featured on GitHub’s list of dotfile resources: <https://gitlab.com/jbwyatt4/chef_dotfile_manager_tutorial>
* Published [*Deploy Rails BlueBook*](https://leanpub.com/deployrailsbluebook/) and [*Automate PHP Deploys*](https://leanpub.com/automatephpdeploys): books on the manual and automated deployment of Linux servers with Chef for Rails and WordPress

**EXPERIENCE**

**Software Engineer, Core-Kernel, Red Hat 11/2021 – Present**

* Working as part of the Red Hat Core Kernel real-time team.
* Maintainer of the Red Hat Enterprise Linux for Real Time 8 y-stream kernel (2022 Sep-Present). The y-stream kernel is what the next version of RHEL for Real Time 8's kernel will be.
* Maintainer of the Red Hat Enterprise Linux for Real Time 8.4 kernel (2022 April-Sep).

**Volunteer Linux Study 10/2020 – 11/2021**

* Working with [Vineeth Pillai](mailto:Vineeth.Pillai@microsoft.com) on writing a [test suite called core\_timer for analyzing the correctness and performance benefits](https://github.com/jbwyatt4/kernel-work/tree/master/core_timer) of the [Core Scheduling](https://www.phoronix.com/scan.php?page=news_item&px=Google-Core-Scheduling-v9) feature with BabelTrace2.
* Learned about the Linux internals with a focus on the kernel’s scheduler.
* Core Scheduling is a project to make Hyperthreading/SMT safer with certain CPU vulnerabilities by forcing un-trusted tasks to run idle where they could have an opportunity to peak at other processes memory.

**Outreachy Initial Intern 02/2020 – 05/2020**

* Learned how to work on large open source projects.
* Worked with [Julia Lawall](mailto:Julia Lawall <julia.lawall@inria.fr>), [Stefano Brivio,](./Stefano%20Brivio%20%3Csbrivio@redhat.com%3E) and [Greg Kroah-Hartman](mailto:Greg Kroah-Hartman <gregkh@linuxfoundation.org>) to improve and prepare Linux drivers in the Linux staging-testing tree for inclusion in the mainline Linux kernel.

**Senior Developer, Wyatt Tech Courses 05/2015 – 02/2020**

* Developed and maintained an enterprise course platform in ***Rails*** with ***AWS***, ***Digital Ocean***, and ***PostgreSQL***.
* Full E-commercial and course functionality implemented with ***Stripe*** for digital payments and prawn for PDF certificate generation.
* Scripted, recorded, and edited a full course on server automation.

**Application Developer I, Los Angeles County 11/2014 – 05/2015**

* Worked with a team of contractors for a ***Linux, Java, PHP, and MySQL*** property estimation tool. Estimations were calculated using ***Machine Learning Regressions*** and ***GIS*** was used to visually map the values.
* *Cut processing time down from days to hours* for a single tax district of Los Angeles County (over 80+).
* Allowed the Accessor's department to *move away from an old Cobol system* to a modern Linux-Java system.
* Developed an internal tool (plugin) that integrates into ***WordPress*** for the Accessor's department.

**EDUCATION**

**The University of California, Merced (UCM) July 2014**

B.S. Computer Science & Engineering