

# John B. Wyatt IV

[GitHub/jbwyatt4](https://github.com/jbwyatt4) • [jbwyatt4@gmail.com](mailto:jbwyatt4@gmail.com) • Raleigh, NC

Motivated and experienced Linux kernel and former full stack web developer

---

## SKILLS

---

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:	<a href="#">Deploy Rails BlueBook, 2014</a> , <a href="#">Automate PHP Deploys, 2014</a> , <a href="#">core timer</a> ,

---

## 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](https://gitlab.com/jbwyatt4/chef_dotfile_manager_tutorial)
- Published [Deploy Rails BlueBook](#) and [Automate PHP Deploys](#): 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](#) on writing a [test suite called core\\_timer for analyzing the correctness and performance benefits](#) of the [Core Scheduling](#) 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](#), [Stefano Brivio](#), and [Greg Kroah-Hartman](#) 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 Assessor'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 Assessor's department.

**EDUCATION**

---

**The University of California, Merced (UCM)**  
B.S. Computer Science & Engineering

**July 2014**