John B. Wyatt IV - jbwyatt4.com

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Motivated and experienced Full Stack + DevOps developer with two published books and a previous business: WyattTechCourses.com, **seeking full-time employment**.

SKILLS / CERTIFICATIONS

Front-End Development:	Web Design, CSS, SCSS, Bootstrap, Google Materialize, HTML5, jQuery, some ReactJS, JavaScript
Back-End/Desktop:	RESTful development, Postman, Web Payments / E-commercial, Ruby on Rails, RSpec, C/C++, Python, Java, PHP, Rust (learning)
Platform + Database:	SQL (MySQL), PostgreSQL setup and admin, NoSQL, MongoDB, Amazon Web Services (AWS S3), VPS setup and maintenance experience
DevOps:	Ansible, Chef, Bash scripting, Git, Ubuntu Linux, Debian, Github/Gitlab/Bitbucket, Docker, some Kubernetes
Published Works:	*Deploy Rails BlueBook, 2014* *Automate PHP Deploys, 2014*
Certificates:	Introduction to MongoDB, MongoDB University, 2017 Software as a Service (SaaS), University of California, Berkeley (Edx.org), 2013
Associations / Awards:	GeekBeacon Fest (volunteer) Linux Kernel Contributor Member of SIAM 2013 Dean's List / Bobcat Scholarship

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ACCOMPLISHMENTS / PROJECTS

- LeetCode Oct 17 2019 100% Smallest Memory Usage For All C++ Submissions Accomplishment https://leetcode.com/submissions/detail/270863400/ at the time for Oct 17 2019
- Created a B2B Course Site, WyattTechCourses.com, written in Rails and uses Bootstrap/jQuery with enterprise features such as: group purchasing, revoking, auditing, and generate PDF certificates (Prawn). Videos are provided by Carrierwave with AWS; email is provided by ActiveMailer with SendGrid.
- Wrote a dotfile manager in Chef to manage packages, hostfiles, custom commands using Chef templates and package management tools. (https://gitlab.com/jbwyatt4/chef_dotfile_manager_tutorial).
- Wrote a frontend for YCombinator's Hacker News in React with Create-React-App. (https://gitlab.com/jbwyatt4/hackernews).
- Wrote a Small Business Order System in Ruby on Rails + Twitter Bootstrap + PostgreSQL Hosted on Heroku.
- Published, *Deploy Rails BlueBook*, a book on the manual and automated deployment of Linux Rails servers with Chef on Ubuntu Linux.
- Published *Automate PHP Deploys*, a companion book on the manual and automated deployment of WordPress PHP servers.

EXPERIENCE

Outreachy-Volunteer Linux Study

10/2020 – Present

- Working with Vineeth Pillai to learn Linux internals with a focus on the kernel scheduler.
- Intending to work on the new Core Scheduling feature being mainlined into the Linux kernel with a focus on testing and analyzing performance benefits of the Core Scheduling feature.

- Core Scheduling is a project to make Hyperthreading/SMT safer with current CPU vulnerabilities by using tagged CGroups to assign trusted tasks to run on the same CPU core. This allows large data center deployments to reduce the performance loss from current CPU mitigations.
- Article on Core Scheduling: https://www.phoronix.com/scan.php?page=news_item&px=Google-Core-Scheduling-v9

Outreachy Initial Intern

02/2020 – 05/2020

- 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.
- Contributed documentation to the Ceph project.

President/Lead Programmer, Wyatt Tech Courses   **05/2015 – 02/2020**
- Developed and maintained an enterprise course platform in *Rails* with *AWS*, *Digital Ocean*, and *PostgreSQL*.
- Used *Stripe* for a digital payments integration with the platform
- *jQuery* and *Bootstrap* was used for the front end
- Wrote a *Chef DevOps* script to complete automated setting up and updating the course platform.
- Scripted, recorded, and edited a full course on server automation.
- Registered with government entities for contracting and government purchasing.
- Wrote copy and marketed my course and website to businesses/governments.

Application Developer I, Los Angeles County   **11/2014 – 05/2015**
- Designed and developed a mobile application prototype in the *Android Eclipse* platform intended for Accessors to take into the field on an Android tablet.
- 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 the popular website platform *WordPress* for the Accessor's department. The *Angular JavaScript* framework was used to provide interactive functionality that fetched data from a public API.
- – *Saved the Accessor's department money* by automating a task it previously paid an outside team to do every time it had to change a part of their website.
- Gained experience working with California government processes and legal requirements, including property tax law.

Student Researcher, University of California, Merced   **01/2013 – 07/2013**
- Researched cloud computing and virtualization.
- Studied research papers and articles on cloud computing including Google File System, Google BigTable, Eucalyptus, and Apache Hadoop.
- Wrote an undergrad survey paper on virtualization implementations that compared Linux Cgroups, BSD Jails, Solaris Zones, VMWare, Xen, and VirtualBox.
- Gained experienced working in a graduate student lab and developing plans in meetings.

EDUCATION

University of California, Merced (UCM)   **July 2014**
B.S. Computer Science & Engineering

References Available Upon Request.