Kim Cottrell

Senior software engineer and mid-level devops engineer with experience across multiple programming languages, databases, and tech stacks.

✉ me@kimdcottrell.com   📞 571 422-3995   📍 Springfield, VA
in https://www.linkedin.com/in/kimdcottrell/

WORK EXPERIENCE

The Motley Fool, Alexandria, VA

DevOps Developer (US Division)   March 2020 – April 2023

- Designed and implemented a company-wide local development environment template that supported SSL/TLS & HTTPS, reducing initial developer overhead, increasing productivity across multiple teams, and minimized discrepancies between local, staging, and production
- Improved, upgraded, and maintained developer-facing Django websites to integrate and automate control of critical deployment infrastructure
- Optimized and managed essential components including load balancers, caching systems, CI/CD configurations, and monitoring systems
- Unified the message queue infrastructure and reduced complexity during upgrades by migrating teams across the company from on-prem hosted RabbitMQ instances to CloudAMQP using Terraform
- Leveraged Terraform to migrate from Hashicorp Vault to AWS Secrets Manager during a strategic organization to move on-prem services to cloud-based services

Senior Full Stack Engineer (Global Division)   January 2018 – March 2020

- Reduced development time and error rates for dozens of multi-site international-language supported WordPress websites and plugins by integrating with the WP API, e-commerce vendors, message queues, and various in-house and third-party services.
- Modernized our tech stack, allowing for easier debugging of version control and an easier time hiring talent, by leading the effort to transition the team from Mercurial to Github
- Reduced downtime by 1-2 days per week for six developers and better mirrored the production environment on developer's local machines by creating a cross-operating system compatible Dockerized local development
- Reduced security risk and modernized the tech stack by leading major improvements including: upgrading our stack from PHP 5.6 to 7.2, upgrading PHP as new minor versions came out, implementing containerization in our deployment process so staging better mirrored production, as well as discovering multiple bugs in our host's environment and working with their staff to quickly resolve them

Self Employed (Freelance Consultant)

Software Engineer   January 2014 - December 2017

- Managed multiple clients, serving as both developer and company administrator
- Handled billing, project management, and client communication
- Developed projects using WordPress, Expression Engine, Ruby on Rails, and custom-built solutions

Torx Media

Web Developer   August 2012 - January 2014

- Increased accessibility of client sites by introducing responsive design practices to the company and building mobile-first websites
- Built solutions for clients using WordPress and Drupal

Allegro Consultants

Web Developer   December 2010 - August 2012

- Contributed to the development of projects using Joomla, Drupal, SugarCRM and Magento
- Created databases for bespoke solutions for clients
- Increased accessibility of client sites by writing cross-browser compatible CSS so the websites would be visible in all versions of Internet Explorer down to 7, as well as other browsers

EDUCATION

Michigan Technological University

Computer Science   2009-2010

- Attended. Left for internship

PROJECT

https://kimdcottrell.com

- My blog
- Code available at: https://github.com/kimdcottrell/techlab

Localdev Proxy   August 2023

- When ran alongside a Dockerized application locally, you can use this to enable SSL/TLS & HTTPS
- Code available at: https://github.com/kimdcottrell/localdev-proxy

Fixed a bug in Docker's source code   October 2023

- PR available at: https://github.com/docker/compose/pull/11092

SKILLS

- Languages: Python, PHP, SQL, Bash, CSS, HTML, Javascript
- Frameworks: Wordpress, Django, Vue.js, TailwindCSS, Foundation, FastAPI
- Databases: MySQL, MariaDB, PostgreSQL, Redis
- DevOps: Docker, Terraform, Linux (Arch, Ubuntu, Debian), Datadog, Cloudflare, Fastly, Jenkins, TravisCI, Sentry, Kubernetes
- Local development: Lando, Dev Container, VSCode, PyCharm, Git, Mercurial
- Project management: Agile, Scrum, Kanban, Trello, Jira, Pivotal Tracker, Kanbanize

CERTIFICATIONS

- MySQL 5 DBA Part 1 - Issued June 2012
- MySQL 5 Developer Certified Professional - Issued September 2011