

Zachary R. Hoffman

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Experience

Full-Stack Developer for University of Kansas IT Enterprise Development Services 12/2014-Present

- Principal maintainer for KU's central content management system, which includes over 1,100 Drupal 7 sites
- Developed student application system for KU School of Education system using the Laravel framework
- Developed calendar web app in Symfony 4, including a REST API for other sites to use
- Automated several everyday processes, such as filling out common ServiceNow tickets programmatically via the ServiceNow API (client written in Python), cloning Drupal sites to a local development environment (written in Golang), and U2F 2-factor authentication (browser extension)

Web Developer for University of Kansas Marketing Communications 06/2014-12/2014

- Built, themed, wrote modules for, and maintained dozens of Drupal sites
- Maintained digital asset management system (ResourceSpace)
- Developed site frontends from mockups

Software Engineer Intern at IBM Informix 06/2012-08/2012

- Constructed new demo for Informix Warehouse Accelerator
- Demo used ODBC to connect to Informix IDS with IWA, running BI queries on TPC-DS tables
- Wrote documentation for usage of demo

Security Researcher for Mozilla Corporation 09/2010-04/2011

- Identified one critical (CVE-2011-0051, Mozilla bug 616659), and one high-risk vulnerability (bug 635776)
- Constructed JavaScript exploit test cases for both vulnerabilities on various Firefox builds
- Held a presentation at Lawrence University: "Talk on Browser Security"

Computer Science Lab Tutor at Lawrence University 09/2011-06/2013

- Supported students taking courses in C, Java, and C++
- Walked students through resolving code issues
- Answered technical development questions from students

Independent Studies 09/2011-06/2013

- Developed Max/MSP lexer in JavaScript to play waveform music from MIDI data
- Wrote Z80 core and TI-83+ LCD emulator in Objective-C for iOS
- Wrote file transfer software implementing D-BUS protocol between PC audio port and calculator I/O port

Education: Lawrence University 2013

Bachelor of Arts in Mathematics-Computer Science

Bachelor of Arts in Music

Familiar Technologies

PHP, Java, PHPUnit, Drupal, Laravel, Magento, Symfony, Twig, JavaScript, ES6, Node.js, Vue.js, jQuery, Golang, Rust, Python, ANSI C, C++, Objective-C, C#, ASP.NET, Scheme, Tcl, Docker, Ansible, Lua, Doctrine, MySQL, Oracle, PostgreSQL, Git, Mercurial, Bash, Vimsript

Other Information

- See my FOSS work at github.com/zrhoffman
- President of Lawrence University Computer Science Club 01/2011-06/2013
- Participant in ACM International Collegiate Programming Competition 2010, 2011, 2012, 2013