

# 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

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### **Education: Lawrence University ..... 2013**

Bachelor of Arts in Computer Science-Mathematics

Bachelor of Arts in Music

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### **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

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### **Other Information**

- See my FOSS work at [github.com/zrhoffman](https://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