

Robert J. Hickok

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Round Rock, TX - USA

(630) 210-1728

Education

Bachelor of Science, Computer Science , <i>University of Illinois at Chicago</i> , GPA: 3.95	Sept. 2016 - Dec. 2018
Associate of Science, Computer Science , <i>College of DuPage</i> , GPA: 3.29	Sept. 2013 - May 2016

Skills

Software & Computer Systems - C, C++, Python, Java, JavaScript, SQL, Lua, x86, MIPS, Bash, HTML, CSS

Frameworks - Flask, SpringMVC, WordPress, Bootstrap, AngularJS, ReactJS, ExtJS

Tools - Windows, Linux, BSD, SVN, Git, Excel, GDB, Maven, Make, Agile, Jenkins, GCC/G++, Perf, Valgrind

Professional Experience

Software Engineering Co-Op , <i>Argonne National Laboratory</i> , Darien, IL.	May 2017 - May 2018
<ul style="list-style-type: none">Collaborated with a team of five to create and deploy Java service components which helped improve several lab operationsCreated SQL queries for re-usable reports that clients used on a day-to-day to make data driven decisionsLead research group for modernization of frameworks resulting in adoption and creation of new standards and tools	
Computational Biophysics Intern , <i>Illinois Institute of Technology</i> , Chicago, IL.	Jun. 2016 - Aug. 2016
<ul style="list-style-type: none">Created Python programs to process simulation metadata enabling analysis and assessment of experimentsDeveloped Bash scripts to extract and process data from simulations allowing for abstraction and automation of workflowProduced supercomputer usage proposal that helped reduce project costs by thousands	
Co-Founder - Software Engineer , <i>Naperville Wedding Circle</i> , Naperville, IL.	Jul. 2014 - Sept. 2015
<ul style="list-style-type: none">Created Python application using Flask + MySQL + JavaScript to service +500/month brides and unique visitorsLead sales team in creating effective marketing strategies which helped grow the company 190% in four quartersDiagnosed and fixed performance bottlenecks increasing scalability and reducing monthly costs	
Web Administrator , <i>Evolution Artisan Confections</i> , Valparaiso, IN.	Jul. 2014 - Sept. 2014
<ul style="list-style-type: none">Managed WordPress website and plugins which assisted business to grow from a startup to national brandProvided custom plugin and tooling support using PHP, JavaScript, and MySQL adding unique and engaging functionalityImplemented WordPress theme with custom modifications that established and maintained brand image	

Sales Experience

Sales Associate , <i>Eddie Bauer</i> , Lombard, IL.	Oct. 2015 - Jan. 2018
<ul style="list-style-type: none">Kept store organized by following Eddie Bauer design guidelines which helped company and store brand imageMaintained strong sales performance each quarter by having a UPT > 2.0 and SPH > 100.0Provided excellent customer service that created and improved client relations	

Projects

Xv6 mmap [closed source per UIC academic policy] - Academic (C)	Sept. 2018 - Oct. 2018
<ul style="list-style-type: none">Created a custom mmap implementation for eager and lazy loading to improve disk access time for large filesRe-implemented imshow.c user application using custom mmap implementation improving application speed by an order of magnitudeExtended ioctl display driver to support VGA mode plus the custom mmap implementation for imshow.c further improving functionality	
Resty Router [www.github.com/arrjayh/lua-resty-route] - Personal (Lua)	May 2018 - Aug. 2018
<ul style="list-style-type: none">Redesigned and improved existing WebSocket handler helping other developers to create scalable web servicesImproved forked code clarity by introducing better variable names and methods objectively increasing readabilityAdded middleware to easily handle Redis and PostgreSQL connections extending framework beyond routing	
Google Street View [closed source per UIC academic policy] - Academic (Python + C++)	Jan 2018 - May 2018
<ul style="list-style-type: none">Designed and created 360 degree panorama camera using ArduinosBuilt custom SPI monitor using Python which effectively delegated Arduino communicationImplemented custom software to stitch panorama photos that produced final 360 degree image	
C Compiler [closed source per UIC academic policy] - Academic (C + MIPS)	Jan 2018 - May 2018
<ul style="list-style-type: none">Developed C compiler front-end using Yacc, Flex, & BisonUsed a custom AST format to help with MIPS code generationC89 compliant	