

# Robert J. Hickok

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## Education

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

## Professional Experience

<b>Embedded Software Engineer</b> , <i>Trend Micro</i> , Austin, TX. <ul style="list-style-type: none"><li>Working with Tipping Point Trend Research and Development on next gen IPS systems</li></ul>	Jan. 2019 - Present
<b>Software Engineering Co-Op</b> , <i>Argonne National Laboratory</i> , Darien, IL. <ul style="list-style-type: none"><li>Collaborated with a team of five to create and deploy Java service components which helped improve several lab operations</li><li>Created SQL queries for re-usable reports that clients used on a day-to-day to make data driven decisions</li><li>Lead research group for modernization of frameworks resulting in adoption and creation of new standards and tools</li></ul>	May 2017 - May 2018
<b>Computational Biophysics Intern</b> , <i>Illinois Institute of Technology</i> , Chicago, IL. <ul style="list-style-type: none"><li>Created Python programs to process simulation metadata enabling analysis and assessment of experiments</li><li>Developed Bash scripts to extract and process data from simulations allowing for abstraction and automation of workflow</li><li>Produced supercomputer usage proposal that helped reduce project costs by thousands</li></ul>	Jun. 2016 - Aug. 2016
<b>Co-Founder - Software Engineer</b> , <i>Naperville Wedding Circle</i> , Naperville, IL. <ul style="list-style-type: none"><li>Created Python application using Flask + MySQL + JavaScript to service +500/month brides and unique visitors</li><li>Lead sales team in creating effective marketing strategies which helped grow the company 190% in four quarters</li><li>Diagnosed and fixed performance bottlenecks increasing scalability and reducing monthly costs</li></ul>	Jul. 2014 - Sept. 2015
<b>Web Administrator</b> , <i>Evolution Artisan Confections</i> , Valparaiso, IN. <ul style="list-style-type: none"><li>Managed WordPress website and plugins which assisted business to grow from a startup to national brand</li><li>Provided custom plugin and tooling support using PHP, JavaScript, and MySQL adding unique and engaging functionality</li><li>Implemented WordPress theme with custom modifications that established and maintained brand image</li></ul>	Jul. 2014 - Sept. 2014

## Sales Experience

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

<b>Xv6 mmap</b> [closed source per UIC academic policy] - Academic (C) <ul style="list-style-type: none"><li>Created a custom mmap implementation for eager and lazy loading to improve disk access time for large files</li><li>Re-implemented imshow.c user application using custom mmap implementation improving application speed by an order of magnitude</li><li>Extended ioctl display driver to support VGA mode plus the custom mmap implementation for imshow.c further improving functionality</li></ul>	Sept. 2018 - Oct. 2018
<b>Resty Router</b> [www.github.com/arrjayh/lua-resty-route] - Personal (Lua) <ul style="list-style-type: none"><li>Redesigned and improved existing WebSocket handler helping other developers to create scalable web services</li><li>Improved forked code clarity by introducing better variable names and methods objectively increasing readability</li><li>Added middleware to easily handle Redis and PostgreSQL connections extending framework beyond routing</li></ul>	May 2018 - Aug. 2018
<b>Google Street View</b> [closed source per UIC academic policy] - Academic (Python + C++) <ul style="list-style-type: none"><li>Designed and created 360 degree panorama camera using Arduinos</li><li>Built custom SPI monitor using Python which effectively delegated Arduino communication</li><li>Implemented custom software to stitch panorama photos that produced final 360 degree image</li></ul>	Jan 2018 - May 2018
<b>C Compiler</b> [closed source per UIC academic policy] - Academic (C + MIPS) <ul style="list-style-type: none"><li>Developed C compiler front-end using Yacc, Flex, &amp; Bison</li><li>Used a custom AST format to help with MIPS code generation</li><li>C89 compliant</li></ul>	Jan 2018 - May 2018