

## Bryan Larsen

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3 Camwood Crescent, Ottawa, ON K2H 7X1  
(613) 709-1523, bryan@larsen.st

*Full stack: from circuit design to CSS. Bootloader to React. Database to Kubernetes.*

### Career Highlights

- Very early employee or cofounder at 4 startups
- 30+ years of Unix and programming experience
- Video game in assembly language sold to distributor at 14 years old
- 14 function motor controller in 4KB Rom and 53 bytes RAM
- Ported Linux and bootloader to poorly documented Japanese ARM SOC
- Lead maintainer of popular open source web framework
- Bare metal Kubernetes GPU multi-cluster
- Ported git to OSX
- Electronic Engineering degree with distinction.

*Over 10 years of experience in each of*

### DevOps

Kubernetes, Docker, GCP, AWS, Webpack, MongoDB, PostgreSQL, MySQL, Redis, Prometheus, Make, Jenkins, SQLite, sh, Bash, Selenium, TCL, Git

### Full Stack

React, Typescript, Javascript, CSS, CGI, Ruby, Rails, Node.js, SQL

### Embedded

Rust, C, C++, Linux Drivers, U-boot, ARM/68K/8051 assembly, Circuit Design, VHDL

### Links

- [Stack Overflow](#)
- [GitHub](#)
- [LinkedIn](#)

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<b>Threekit</b>	<i>Senior DevOps and Software Engineer</i> <i>Online 3D Modelling Software</i> <ul style="list-style-type: none"><li>• Led DevOps team</li><li>• Built a multi-site bare metal Kubernetes cluster with GPU support</li><li>• Designed core storage mechanism</li><li>• Javascript, Typescript, ES6, Node.js, WebGL, V-Ray, Operational Transforms, HTML, CSS, Backbone.js, React, Mongo, Redis, Prometheus, nginx, Ansible, Docker, Jenkins, beanstalkd, statsd, AWS, Vagrant, Kubernetes</li></ul>	2012-2022 Ottawa
<b>Barquin</b>	<i>contractor</i> <i>NIFA web applications</i> <ul style="list-style-type: none"><li>• Ruby, Rails, Javascript, jQuery, Selenium, SQL, MySQL</li></ul>	2009-2013
<b>Hobo, hobo-jquery</b>	<i>maintainer</i> <i>popular open source web framework</i> <ul style="list-style-type: none"><li>• core developer and release manager</li><li>• Ruby, Rails, Javascript, prototype.js, jQuery, selenium, SQL, MySQL, SQLite, git</li></ul>	2009-2013
<b>Magor Corporation</b>	<i>contractor</i> <i>Phone based control panel software</i> <ul style="list-style-type: none"><li>• Javascript, Groovy, Java, HTML</li><li>• JETTY, SIP, Mitel</li></ul>	2008 Kanata, Ontario
<b>Lumenera Corporation</b>	<i>Senior Software Engineer</i> <i>Ethernet IP Video Cameras</i> <ul style="list-style-type: none"><li>• Solely responsible for software design and implementation based on customer's rough specification and interaction</li><li>• Led the team responsible for software maintenance</li><li>• Assisted with hardware design</li><li>• Designed and deployed initial software design process and infrastructure</li><li>• Ported Linux to ARM SOC</li><li>• Power on Self-Test design and implementation</li><li>• Manufacturing System Test and Customization design and implementation</li><li>• Worked with manufacturer to ensure reliable production</li><li>• First employee: wide variety of business experiences, including hiring, firing, customer interaction, financial modelling, assembling</li><li>• C, Javascript, HTML, sh, Python, ARM &amp; 68K assembler, C++, make</li><li>• JPEG, motion-JPEG, MPEG, EXIF, TIFF</li><li>• Linux Kernel and Drivers, U-Boot, CGI, XML-RPC, AJAX, Boa (web server), RTP/RTSP, NTP, zeroconf, ActiveX, HTML, XHTML, CSS, Twisted</li><li>• Bugzilla, Subversion, TWiki, PyUnit, CUnit, MySQL, Apache</li></ul>	2002 - 2006 Ottawa, Ontario

<b>Analog Design Automation (currently Synopsys)</b>	<i>Senior Software Engineer</i> <i>Analog Integrated Circuit Synthesis and Optimization Software</i> <ul style="list-style-type: none"> <li>• Responsible for initial design and implementation of Parts Library</li> <li>• Responsible for integration with Cadence Analog Artist</li> <li>• Led small team in an Extreme Programming development of a Synthesis Prototype</li> <li>• C++, Python, TCL, CORBA, LISP</li> <li>• Cadence Analog Artist, SPICE</li> </ul>	1999 - 2002 Saskatoon, Saskatchewan and Ottawa, Ontario
<b>Vitana Corporation (DBA Pixelink)</b>	<i>Senior Software Engineer</i> <i>IEEE-1394</i> <ul style="list-style-type: none"> <li>• Solely responsible for design and implementation of an embedded IEEE-1394 stack</li> <li>• Project lead and customer interface for design of airline set top box</li> <li>• C, 8051 assembler</li> </ul>	1998 - 1999 Ottawa, Ontario
<b>Newbridge Networks (currently Alcatel-Lucent)</b>	<i>Junior Hardware Engineer</i> <i>Time Division Multiplexing</i> <ul style="list-style-type: none"> <li>• Responsible for implementation of Data Multiplex FPGA and Glue Logic FPGA</li> <li>• VHDL, Schematic Capture</li> <li>• Mentor Graphics</li> </ul>	1997 - 1998 Ottawa, Ontario
<b>Co-op Jobs for Kipp &amp; Zonen, Ricoh, SED Systems, Environment Canada</b>	<ul style="list-style-type: none"> <li>• 8051 assembler, C, C++, FORTRAN, Visual BASIC</li> <li>• Labview, COM, OLE, DLL, MFC, Watcom 4G</li> <li>• HP-UX, OS/2, MS-DOS, Data General AOS/VS</li> </ul>	1993 - 1997
<b>T&amp;D Software</b>	<i>Freelance Designer</i> <i>Video Games</i> <ul style="list-style-type: none"> <li>• Design and Implementation of Video Games</li> <li>• 6809 Assembler, BASIC</li> </ul>	1987 - 1990 Holland, MI
<b>Education</b>	<ul style="list-style-type: none"> <li>• University of Regina, 1997, Bachelor of Applied Science in Electronic Systems Engineering, Honours</li> </ul>	