

# Brian M Hunt

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## Employment

- 2012 - *present* **President, CEO, and Founder**, *NetPleadings Inc.*, St. Catharines, Ontario, Canada.  
Creator of the NetPleadings service known as Conductor, an online software-as-a-service for lawyers designed to save time and reduce errors in corporate entity management and document production, as well as form the foundation for other services that augment the practice of law.
- Has written millions of lines of code in dozens of languages, and in particular Python, Javascript (ES3-6), CoffeeScript, Lua, LaTeX, ConTeXt, YAML
  - Designed a scalable, secure, fast, and user friendly system, with numerous groundbreaking implementations in the web-application universe, including being the first or among the first:
    - outside Google to use Google's BigTable NoSQL wide-column datastore;
    - to implement a single page web application (with knockout.js);
    - to employ Strict Transport Security headers;
    - to request white-listing for Public Key Pinning of TLS certificates on the Google App Engine platform;
    - to employ dual-channel authentication (localStorage + secure-cookies);
    - to provide contextual suggestions for users for dates, addresses, and others.
  - Worked closely with numerous corporate lawyers and clerks, particularly on the user interface, functional requirements, and pricing.
- 2010 – 2012 **Associate lawyer**, *Cleaver Crawford LLP*, Burlington, Ontario, Canada.  
General practice, including corporate, litigation, and employment law.
- Responsible for firm litigation including most document creation and hearings
  - Co-counsel for the plaintiffs on a successful class action between three hundred individuals and a major automobile manufacturer over employment benefits
- 2006 – 2010 **Associate lawyer**, *Patrick Mazurek, Barristers*, Toronto, Ontario, Canada.  
Civil litigation boutique specializing in disputes regarding jurisdictional issues, insurance, pension, employment, and class proceedings.
- Co-counsel on a class-action of over a thousand nurses disputing the right of their long-term disability insurer to offset benefit entitlement by the amount of their pension benefits
  - Performed legal research, drafted and edited documents setting out positions, and advocated at hearings on behalf of a variety of clients, including Her Majesty the Queen, in Right of the Province of Ontario
  - Attended and represented clients at ad hoc and administered arbitrations, mediations, assessments, motions, applications, pre-trials, and trials
- 2002 – 2003 **Senior software developer**, *Q1 Labs Inc*, Fredericton, NB, Canada.  
Security software developed to monitor and visualize data link, network transport and session for large and complex computer networks. Clients included NASA, the Department of Homeland Security, Harvard, virtually all major banks, various world governments. Q1 Labs Inc acquired by IBM in October of 2011.
- Developed the majority of the software code in C++ and Perl.

- 2001 – 2002 **Software developer**, *VisionMD Inc*, Fredericton, NB, Canada.  
Designed and developed a distributed electronic medical records system for Canadian physicians. VisionMD acquired by Nightingale Informatix in 2002.
- Wrote a multi-million dollar grant proposal for the Natural Sciences and Engineering Research Council of Canada (NSERC)
  - Developed the company's key software, using Java, SQL, and Active Server Pages on Microsoft NT 4.0/IIS
  - Set up, secured, and maintained Microsoft Windows NT Server to comply with Rainbow/"Orange Book" C2 requirements, the US Government's Trusted Computer Security Evaluation Criteria, the highest security evaluation achieved by a general-purpose operating system at the time.

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## Sample Publications

- 27 July 2016 **Rapporteur**, Sovereign Bankruptcy Group 'Biennial Conference 2016' (Johannesburg, South Africa).
- 15 Mar. 2016 **Debugging Deep Promises**.  
<https://brianmhunt.github.io/master-debugging-promises>
- 5 Mar. 2016 **ACME + AppEngine ... Simplified**.  
<https://brianmhunt.github.io/acme-appengine-simplified>
- 22 Feb. 2016 **Let's Encrypt - ACME on AppEngine**.  
<https://brianmhunt.github.io/articles/let-s-encrypt-acme-on-appengine>
- 25 Nov. 2015 **Picking our roots: Between HSTS and public key pins**.  
<https://brianmhunt.github.io/picking-our-roots-between-hsts-and-public-key-pins>
- 20 Sept. 2015 **Properly Parsing HTML in HTML5**.  
<https://brianmhunt.github.io/properly-parsing-html-in-html5>
- 29 July 2015 **Details on the new Knockout Website**.  
<https://brianmhunt.github.io/knockout-website-details>
- 19 June 2015 **Caching almost everything static on Google App Engine**.  
<https://brianmhunt.github.io/caching-almost-everything>
- 16 Sept. 2014 **Opinionated modals with Knockout**.  
<https://brianmhunt.github.io/articles/opinionated-modals>
- 18 July 2014 **Taming contentEditable with jQuery**.  
<https://brianmhunt.github.io/articles/taming-contenteditable>
- 9 July 2014 **Knockout observables and Promises**.  
<https://brianmhunt.github.io/articles/pubsub-promises>
- 9 Apr 2014 **Rapporteur**, Study Group on Sovereign Insolvency, Group Moot (Washington D.C.).
- 4 Apr. 2014 **Google App Engine tags for ndb**.  
<https://brianmhunt.github.io/articles/ndb-tags>
- 17 Feb. 2014 **Catching Sinon Unmet Requests**.  
<https://brianmhunt.github.io/catching-sinon-unmet-requests>
- 16 Feb. 2014 **Open Source Exposure**.  
<https://brianmhunt.github.io/open-source-exposure>
- 13 Feb. 2014 **Knockout catching errors**.  
<https://brianmhunt.github.io/articles/knockout-catching-errors>
- 2 Feb. 2014 **Knockout Secure Binding**.  
<https://brianmhunt.github.io/articles/knockout-plus-content-security-policy>

- 26 Jan. 2014 **Knockout and foreign keys extender.**  
<https://brianmhunt.github.io/articles/knockout-and-foreign-keys>
- 25 Jan. 2014 **Storing passwords using Python.**  
<https://brianmhunt.github.io/articles/strong-crypto-python-passwords>
- 24 Jan. 2014 **Importance of typography.**  
<https://brianmhunt.github.io/articles/importance-of-typography>
- 23 Jan. 2014 **Permanent HTTP caching and busting.**  
<https://brianmhunt.github.io/articles/permanent-caching-and-busting>
- 22 Jan. 2014 **Asynchronous client-side Javascript page loading.**  
<https://brianmhunt.github.io/articles/making-everything-async>
- 2012 **Author**, Sovereign Insolvency World Map.  
<https://sovinswm.appspot.com/>
- 30 June 2011 **Answer**, *Python: Converting from ISO-8859-1/latin1 to UTF-8.*  
<http://stackoverflow.com/a/6539952/19212>
- 2010 **Rapporteur**, Sovereign Insolvency Study Group ‘State insolvency: options for the way forward’ in International Law Association Report of the Seventy-Fourth Conference (The Hague 2010) (International Law Association, The Hague 2000) 978 (Interim Report).
- 2007 **Author**, Brian Hunt and Rish Handa, “A Critical Comparison between Australian and Canadian Creditor Protection Regimes: Voluntary Administration and CCAA” [2007] Ann. Rev. Insol. Law 895.

## Sample Open Source Software

<b>tko.js</b> Technical Knockout – An Experimental Fork <a href="https://github.com/knockout/tko">https://github.com/knockout/tko</a>	<i>ES3 Javascript.</i>
<b>tko.binding.foreach</b> Constant-time O(1) foreach binding <a href="https://github.com/knockout/tko.binding.foreach">https://github.com/knockout/tko.binding.foreach</a>	<i>ES5 Javascript.</i>
<b>tko.provider</b> Compiler/Parser for KO’s HTML-Javascript binding <a href="https://github.com/knockout/tko.provider">https://github.com/knockout/tko.provider</a>	<i>ES5 Javascript.</i>
<b>pytz-appengine</b> Python TimeZone for AppEngine <a href="https://github.com/brianmhunt/pytz-appengine">https://github.com/brianmhunt/pytz-appengine</a>	<i>Python.</i>
<b>float80</b> Read 48 and 80-bit Extended Floating Point (IEEE-754) Numbers from buffers <a href="https://github.com/brianmhunt/float80">https://github.com/brianmhunt/float80</a>	<i>ES6 Javascript.</i>
<b>MutexPromise</b> A+/ES6 Promises for developing/debugging <a href="https://github.com/brianmhunt/MutexPromise">https://github.com/brianmhunt/MutexPromise</a>	<i>ES5 Javascript.</i>
<b>aeu2f-go</b> FIDO U2F support for authenticating in Go on App Engine <a href="https://github.com/brianmhunt/aeu2f-go">https://github.com/brianmhunt/aeu2f-go</a>	<i>Golang.</i>
<b>casper-chai</b> Extends Chai with assertions for the CasperJS/PhantomJS headless browser <a href="https://github.com/brianmhunt/casper-chai">https://github.com/brianmhunt/casper-chai</a>	<i>Coffeescript.</i>
<b>karma-speech-reporter</b> Karma reporter that text-to-speeches the results <a href="https://github.com/brianmhunt/karma-speech-reporter">https://github.com/brianmhunt/karma-speech-reporter</a>	<i>ES5 Javascript.</i>
<b>SIWorldMap</b> Sovereign Insolvency World Map <a href="https://github.com/brianmhunt/SIWorldMap">https://github.com/brianmhunt/SIWorldMap</a>	<i>Various.</i>

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## Professional Memberships

- 2012 - *present* **Core developer** The Knockout Team
- 2012 - *present* **Founder & Rapporteur**  
Sovereign Bankruptcy Group of the International Law Association
- 2007 – 2012 **Founder & Rapporteur**  
Sovereign Insolvency Study Group of the International Law Association
- 2010 – 2014 **Director**  
Canadian Branch of the International Law Association
- 2006 - *present* **Member**  
International Law Association
- 2007 **Law Society of Upper Canada (Ontario)**  
Called to the bar
- 2006 **New York State Bar**  
Admitted to practice

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## Education

- 2003 – 2005 **Bachelor of Laws**, *Queen's University*, Kingston, Ontario.
  - 2004 Exchange to University of Sydney, Australia
  - 2003 Diploma in International Business Law from the Bader International Study Centre (BISC) at Herstmonceux Castle, East Sussex, United Kingdom
  - First to graduate a term early from Queen's University law school by studying at the BISC
- 1998 – 2001 **Bachelor of Science**, *University of New Brunswick (UNB)*, New Brunswick, Canada.  
**Honours with a specialization in Mathematics**
  - Minor in Philosophy
  - First person to receive two concurrent four-year science degrees from UNB
- 1996 – 2001 **Bachelor of Computer Science**, *UNB*, New Brunswick, Canada.  
**Honours with a specialization in the Theory of Computation**
  - Attended courses and credited with graduate studies in artificial intelligence
  - Received a Canadian federal research grant from the Natural Sciences and Engineering Research Council of Canada (NSERC) to study artificial reasoning, notably the algorithmic benefit of segregating and resolving Horn clauses in boolean satisfiability