Brian M Hunt

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.

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

tko.js Technical Knockout – An Experimental Fork — *ES3 Javascript*.
https://github.com/knockout/tko

tko.binding.foreach Constant-time O(1) foreach binding — *ES5 Javascript*.
https://github.com/knockout/tko.binding.foreach

tko.provider Compiler/Parser for KO's HTML-Javascript binding — *ES5 Javascript*.
https://github.com/knockout/tko.provider

pytz-appengine Python TimeZone for AppEngine — *Python*.
https://github.com/brianmhunt/pytz-appengine

float80 Read 48 and 80-bit Extended Floating Point (IEEE-754) Numbers from buffers *ES6 Javascript*.
https://github.com/brianmhunt/float80

MutexPromise A+/ES6 Promises for developing/debugging — *ES5 Javascript*.
https://github.com/brianmhunt/MutexPromise

aeu2f-go FIDO U2F support for authenticating in Go on App Engine — *Golang*.
https://github.com/brianmhunt/aeu2f-go

casper-chai Extends Chai with assertions for the CasperJS/PhantomJS headless browser *Coffeescript*.
https://github.com/brianmhunt/casper-chai

karma-speech-reporter Karma reporter that text-to-speeches the results — *ES5 Javascript*.
https://github.com/brianmhunt/karma-speech-reporter

SIWorldMap Sovereign Insolvency World Map — *Various*.
https://github.com/brianmhunt/SIWorldMap

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	**Lawyer** Law Society of Upper Canada (Ontario), called to the bar
2006	**Lawyer** New York State Bar, admitted to practice

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 Brunwsick, 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 Brunwsick, 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