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| www.continuum.org/brentb | **BRENT J. BOGHOSIAN**, B.Sc. 71 Margaret Avenue, Kitchener, Ontario, N2H 4H3  519-576-3573 | [brentb@continuum.org](mailto:brentb@continuum.org) |

**PROFESSIONAL PROFILE**

* Over 10 years experience with multi-threaded, cross-platform design & development utilizing various *Life Cycle* models.
* Expert developing and porting thread-safe code to all UNIX, Linux and MS Windows.
* Experienced with: GUI design/development, voice recognition/synthesis, real-time & embedded systems.
* Over 7 years leading small teams, from three to six members, in the formal development of various complex systems.

**TECHNICAL SKILLS**

* 7+ years of formal Software Design using: *SSADM* (with DOD-STD-2167A) or OOA/D: UML,   
  Test Driven Development (TDD), Constantine *Use Cases*
* 10+ years C/C++ development on UNIX / Linux & MS Windows
* 5+ years Java & Web development including: PHP, XML, JavaScript/AMD/jQuery/YUI, CSS, SQL, UNIX *shells*
* Development Tools include:
  + MS Visual Studio, Eclipse, NetBeans, JIRA, BlueJ, *Rose*, *StP*, Object-Domain, *SalesForce*, UIM/*X*
  + GNU Toolchain, CVS/RCS, git, Perforce, Purify/Quantify, Jenkins, Selenium, *x*Unit, Behat, *SilkTest*

**SOFTWARE MANAGEMENT EXPERIENCE**

**Full Stack Developer/ELIS Architect**; **Remote-Learner**, *Waterloo, Ontario*; October 2010 to Jan. 2018

* Developed & maintained MOODLE/ELIS modules (OO-PHP/Javascript) including eMail block, OpenID & SAML authentication plugins, and a set of plugins to access the Alfresco/Tomcat document management system.
* Developed Web Services: REST, XMLRPC & SOAP - to access ELIS functionality, and, hosted AWS Snapshot management.
* October 2012, becameTeamLead and Architect of the ELIS Product and custom development projects.
* Generated functional requirements, design specifications, APIs, oversaw implementation and development of a Java/Selenium test suite.
* Built software releases and planned product road-map utilizing Agile Development Methodology with JIRA and Jenkins/CI.

**Software Engineer, Team Lead** (Contractor); **Quack.com** , *Waterloo, Ontario*; January 2001 to May 2001

* In charge of the VoiceXML Browser - the central component of the *AOLbyPhone Voice Portal* to the Internet.
* Implemented in C++ and developed under WindowsNT to interpret *VoiceXML* from Servers, interface through APIs with specialized Speech Recognition and Telephony hardware; for complete audio I/O and call control.
* Led two junior team members with automated testing design/development and performance analysis.

**Software Engineer, Team Lead**; **Open Text Corp.**, *Waterloo, Ontario*; October 1995 to Jan. 1997

* Lead designer and developer of the *LiveLink Spider* - providing scalable multi-process/threaded repository creation, maintenance and indexing solutions for *Text Databases*, documents, files and their hierarchies.
* Implemented in C/C++ and ported to numerous UNIX platforms and WindowsNT, the applications connected through both public and proprietary libraries/APIs to the Internet, *OpenText 6* (OT6) and internal databases.
* Documentation, GUI design/development, performance analysis, scheduling & customer support.

**Software Engineer, Team Lead**; **Raytheon Canada Ltd.**, *Waterloo, Ontario*; August 1992 to June 1994

* Acquired DND Security Clearance as member of the Software Development Team assigned to design and develop a Functionally Advanced EHF MILSATCOM Satellite Communications Ground Terminal System for Evaluation and Test (*FASSET*), to government (DREO) specifications.
* Software Requirements Analysis and Preliminary Design (DOD-STD-2167A) sectioned the project into Subsystems, Tasks, and Modules.
* Functional Decomposition employed State, Data-Flow, and Interface/Communication techniques to generate the Detailed Design Logic.
* The System Design was implemented using 'C' in a real-time, multitasking, multi-processor VMEbus VMEexec/pSOS+ environment.
* Project responsibilities included Ground Terminal Controller software implementation design, coding, GUI development, subsystem configuration, integration, testing, documentation, etc.

**PRODUCT DEVELOPMENT EXPERIENCE**

**Senior Software Developer** (Contractor); **Ricoh Canada**, *Kitchener, Ontario*; Oct 2019 to March 2020

* Designed and developed a Windows Printer Port Monitor (*SlnxToDSPortMonitor*), in C++, that intercepts print jobs to specific ports and redirects them to configured Ricoh Delegation Server(s) for secure printing.
* Ported the *SlnxToDSPortMonitor* to RHEL8 Linux using CUPS and developed distribution & installation scripts.
* Tools include: Microsoft Visual Studio 2019, SVN, CppREST, Boost & PugiXML libraries, Microsoft Teams, etc.

**Senior Java Developer** (Contractor); **Oracle/NetSuite**, *Kitchener, Ontario*; Sept 2018 to May 2019

* Member of the NetSuite HCM: Payroll Applications team handling payroll functions of NetSuite.
* Fixed defects in code (Java, JavaScript/SuiteScript) and participated in Agile Development.
* Tools include: JIRA, Confluence, IntelliJ IDEA, Perforce, SQL Developer, Slack, etc.

**Software Engineer**; **Navtech Systems Support Inc.**, *Waterloo, Ontario*; August 2004 to Sept. 2005

* Interpreted Airline Customer requirements, adhering to all FAA regulations, to develop Navtech's Airline Crew Planning & Scheduling software products: *Preferential Trip/Vacation Bidding/Trading* .
* Implemented mainly in C/C++, the systems were developed & operate under *RedHat* Linux.
* Typical *Crew* system configurations consist of: Webserver GUI (*Apache*/Perl) front-end connected to back-end Application, ORB and Database servers; with redundant back-up machines.
* Scheduling, code design/implementation, installation, configuration, testing, documentation & support.

**Software Engineer** (Contractor); **Canamex Communications Corp.**, *Markham, Ontario*; Sept. 1998 to Jan. 2003

* Assisted Electrical Engineer with hardware designs and developed firmware for auxiliary interfacing devices: *POCSAG* encoder/transmitters, *Text-to-Speech* module, *Page-Alert* Alarm & Monitoring systems.
* Implemented a micro-TCP/IP stack, SMTP & POP3, in C, to enable Email support for the Paging Systems.
* Developed Server components using C/C++ on *Debian* Linux with additional HTML/CGI programs providing web-based administration & configuration, system status information and online User/Reference manuals.

**Software Engineer**; **Mortice Kern Systems Inc. (MKS)**, *Waterloo, Ontario*; January 1997 to Sept. 1998

* Developed Java-based *WI Clients* (UNIX, Windows & MAC) to provide an HTML/JavaScript UI via standard Web Browsers providing a web-based revision control system - *MKS Web Integrity*.
* Integrated Server components (*WI Engine*) into third-party Web Servers using the C-APIs provided - i.e. Netscape NSAPI (UNIX & Windows), Microsoft ISAPI, etc., with additional Java Servlets and CGI services.

**Software Engineer**; **AT&T Global Information Solutions (NCR)**, *Waterloo, Ontario*; June 1994 to Oct. 1995

* Technology Strategy advisor, member of the Image Committee, and, the *SIIPS* Software Development Team.
* Implemented in C/C++ under both UNIX with X/Motif and Windows, the applications connected, through custom APIs, to distributed Database, Workflow/Task Managers; providing a network-scalable Image/Item Processing platform with Recognition, *Kerberos* security, and numerous Host, User and Transport/Device interfacing options.

**Software Engineer** (Contractor); **Canamex Communications Corp.**, *Markham, Ontario*; Oct. 1990 to Aug. 1992

* Designed and developed *QUIKPAGER* - portable, multitasking communications software.
* Developed real-time kernel & *C-libraries* for embedded systems.

**OTHER EXPERIENCE**

**Professional Musician**; May 2006 to Sept. 2010

* Musical Director, piano/keyboards and guitar: **WhatNext/WhatNot Jazz trio**, the Glynn Abbott Band, etc.
* Website design & maintenance, repertoire selections, arrangements and charts for guest musicians.

**EDUCATION**

**Summer/Fall 2009 -** **UNIVERSITY OF WATERLOO, Continuing Education**

* Intermediate PHP and MySQL
* Intermediate C# Programming
* Intermediate Java Programming

**Bachelor of Science 1990** **UNIVERSITY OF WATERLOO***, Waterloo, Ontario*; Co-Op. Applied Physics program.

**INTERESTS**

* Design and build everything from wood-working projects for the home, to expansion devices for computers and audio equipment.
* Enjoy improvising Jazz piano, reading, playing Chess, Tennis, Tai-Chi & Baseball.