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| Gregory Lo | 608-179 George St. Ottawa, ON  K1N 1J8 (613) 882-4430  gregl.thegs@gmail.com   * https://thegs.github.io/resume.html * https://www.linkedin.com/in/gregory-lo-03b55b6/ |
| Objective: | * Seeking full-time position involving software development and/or testing in an environment that encourages the incumbent to develop and acquire new skills. |
| Interest: | * Special interest in user interface design, object-oriented application frameworks, development tools, graphics, and cross-platform programming issues. * Fonts and font technology. Implementing code to programmatically manipulate PDF documents. Multilingual text handling. * Low-level filesystem implementations, Web applications, distributed computing, and virtual machine implementations. |
| Highlights: | * Over 20 years of professional programming experience, beginning early as a computing enthusiast. * C, C++, Objective-C, Swift, Ruby, PHP, JavaScript, Perl, AppleScript, Java, Basic, FORTH, and other languages. * Experience writing commercially shipping application software in mainstream software development environments, including: XCode, Microsoft Visual C++, Metrowerks CodeWarrior (C/C++/Pascal), and Symantec C++ for Macintosh. * Application frameworks such as MetroWerks PowerPlant, MFC, Cocoa. * Some experience writing an Adobe PhotoShop plugin. * Graphic design and desktop publishing using such popular packages as: Quark XPress, Adobe PageMaker, Adobe PhotoShop, CorelDRAW!, Ventura Publisher. |
| Employment eligibility: | * Canadian citizenship. * Australian-born — can resume Australian citizenship. |
| Selected Work and Volunteer Experience | |
| 11/2005 - 05/2017 | Senior Software Engineer  FileMaker Canada, Inc.  Ottawa, Ontario   * Implemented a scheme using Mach kernel IPC and MIG (the Mach Interface Generator) to connect an Intel-based macOS application with a PowerPC-based third-party library years before high-level alternatives such as Apple XPC Services became available. * Created a cross-platform file-system abstraction for consistent access to file-streams and directories inside of archives and native file systems. Wrote original code to implement cross-platform read and write access to ZIP archives on top of this abstraction. * Led technical efforts to implement a feature for the import and export of data to/from Excel 2007 (.xlsx) file format into a relational database. * Responsible for printing architecture of desktop and server products, supporting printing of reports, schema, scripts, and PDF generation of the same * Implemented a feature to remember (and re-apply) selected printers in a cross-platform application. * Implemented a feature to allow PDF generated through the product's user scripting to be easily appended to existing PDF files. * Re-implemented a graphical editor for interactively manipulating relationships in a relational database to work on top of a cross-platform lightweight view system. * Led technical efforts to replace use of a commercial third-party PDF generation library with a newer, more open, cross-platform third-party alternative. * Wrote a number of internal tools to aid in software quality assurance, including small apps for comparing PDF files, inspecting capabilities of printers, and inspecting various types of font files.   Shipped products:   |  |  | | --- | --- | | * FileMaker Platform 16 * FileMaker Pro and Pro Advanced 15 * FileMaker Pro and Pro Advanced 14 * FileMaker Pro and Pro Advanced 13 * FileMaker Pro and Pro Advanced 12 | * FileMaker Pro and Pro Advanced 11 * FileMaker Pro and Pro Advanced 10 * FileMaker Pro and Pro Advanced 9 * FileMaker Pro and Pro Advanced 8.5 | |
| 05/1998 - 11/2002 | Software Developer  Corel Corporation  Ottawa, Ontario   * Added user interface features, performed pre-alpha testing and fixed bugs in currently shipping products. * Worked primarily in large team to develop cross-platform framework (implementing Win32 API on both Classic Macintosh and MacOS X platforms) using C++ and plain C. * Cross-platform menu subsystem specialist. Implemented Win32 menu APIs using Mac Toolbox and Carbon APIs. Wrote an MDEF to implement the Win32 owner-draw behaviour. * Font technology and text-handling specialist. Implemented Win32 font handling and access APIs using Mac Toolbox and Carbon APIs * Developed and maintained local team documentation website and groupware server, gluing together various Perl and PHP-based web applications.   Shipped products:   |  |  | | --- | --- | | * CorelDRAW! Graphics Suite 11 * Corel Graphics Suite 10 Macintosh * CorelDRAW! 10 Graphics Suite * Bryce 5 * Carbonized Bryce 4 * CorelDRAW! 9 * Corel PrintHouse 2000 Macintosh | * Corel PrintHouse 5 * Corel PhotoHouse Magic 5 * Corel PrintOffice 2000 * MacPort Win32 bridge framework * Corel Trace 8 for PowerMacintosh * Corel PhotoPaint 8 for PowerMacintosh * CorelDRAW! 8 for PowerMacintosh | |
| 05/1996 - 09/1996 | Software Developer and Tester  Corel Corporation  Ottawa, Ontario   * Added user interface features, performed pre-alpha testing and fixed bugs in currently shipping products using C++. * Evaluated third-party software packages for bundling.   Shipped products:   |  | | --- | | * Corel CD Creator for Macintosh v1.1 * Corel VIDEO v1.6 (Enterprise video solution - Macintosh platform client) | |
| 07/1995 - 04/1996 | Production Manager  *The Queen's Journal*, Volume 123 (Alma Mater Society of Queen's University Inc.)  Kingston, Ontario   * Responsible for production process and final appearance of each issue of major biweekly (two issues per week) college newspaper. * Managed (and trained) pool of production contributors. * Coordinated layout schedules and use of computer resources. Developed more streamlined computer-based document workflow from copy-editing through to camera-ready flats. * Oversaw transition from Aldus (Adobe) PageMaker software to Quark XPress as primary instrument for layout of paper. |
| Education History | |
| 1993 - 2000 | Queen's University  Kingston, Ontario   * B.Sc. (Honours) degree, Computer Science (2000) * B.Sc. degree, Computer Science (1998) |
| 1988 - 1993 | Unionville High School  Unionville, Ontario   * Ontario Secondary School Diploma, Ontario Scholar |