

Jason C Lee

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Software Developer

My passion for programming began as an early teenager, continuing through my education, and into a meaningful career. Never satisfied only scratching the surface, I endeavor for deep understanding of the technology I use with an affinity for performance and security. I enjoy being able to collaborate and share knowledge with like-minded developers. I strive to continually improve my skills so that I may compose well structured, easily maintained, performant code. I have created software for desktop and web, under various systems including Windows and Linux, and with a variety of languages such as C, Java, PHP, Python, and PERL.

Professional Experience

Web Application Development - Metronorth / Metior

2018-2019

Bespoke web application development of inspection and measurement software for the machining industry

- Responsible for all aspects of development, from requirements gathering and architecture through deployment
- Developed with Laravel back-end, VueJS front-end, and Material Design look and feel
- Fully developed with, and deployed to, Amazon Web Services (AWS)
- Highly client engaged with positive client experiences

Tech: AWS (EC2, RDS, S3, Route53, CodeCommit), CloudFlare, PHP (Laravel), Javascript (Webpack, VueJS), Apache, PostgreSQL, HTML, SASS/CSS, Material Design, Bootstrap

Web Application Developer - Interad Corp.

2015-2018

Full-stack web application development and maintenance for companies such as Royal Bank of Canada.

- Architected a template based web element generation application to more efficiently promote assets across various RBC websites
- Improved code security and eliminated code vulnerabilities through security review
- Initiated creation of educational material for secure coding practices, and orientation of new hires
- Took opportunities to imbue junior developers with pragmatic development practices and new technologies

Tech: AWS (EC2, Route53), PHP (CodeIgniter, Propel, Fat Free Framework), PERL, Python, Javascript (VueJS, KnockoutJS), Apache, PostgreSQL, MySQL/MariaDB, HTML, SASS/CSS

Senior Developer - CMMENT inc.

2011-2014

Full-stack web application development, integration, and maintenance for companies such as Royal Bank of Canada and Bank of Montreal.

- Architected light-weight middleware to improve functionality and development speed
- Created profiler and optimized code to reduce memory and page load time by up to 50%
- Created management system for the storage and use of brand assets for Royal Bank of Canada
- Augmented existing system to improve maintainability and meet the needs of clients
- Developed internal and external facing APIs for efficient integration of third-party applications
- Developed customized data analytics to aggregate marketing data in concise, easy-to-read reports and graphs

Tech: PHP, Javascript, ASP, MySQL, PostgreSQL, SQL Server, Apache, NGINX, IIS, HTML, SASS/CSS

Web Developer II - Oxbury Group Inc.

2009-2011

Web development, design, and management including customization and extension of existing CMS.

- Developed plug-ins/add-ons into an existing frameworks to provide extended end-user functionality
- Development, deployment, and management of multiple web sites and databases
- Seamlessly migration of websites and databases between hosts with near-zero downtime
- Evaluated various technologies for use in development which resulted in several productivity improvements

Tech: PHP, Wordpress, Apache, MySQL, HTML, CSS

Software Developer - Fastrak ISP Inc.

2007-2008

Architecture and development software with capabilities for videoconferencing, collaborative editing, and information serving.

- Achieved a three-fold optimization in load times by implementing concurrent processing techniques
- Developed bi-directional teleconferencing on multiple displays
- Evaluate, select, and test technologies to enable implementation under various hardware profiles and environments
- Developed real-time collaborative drawing interface

Tech: JavaSE, Java Swing, RTP/RTMP, JMF, Client-Server networking, Audio/Video Compression

Supplemental Experience

- CorruptedBytes.net - A mostly security related programming blog
- Computation of isosurfaces from molecular data to produce interactive 3D models of molecules
- Code injection and detouring on running x86 processes (C, ASM)
- Raw network traffic capture for network statistics and analysis
- Real-time 3D network traffic visualizer

Education

SANS

2016

DEV522 - Defending Web Applications Security Essentials

Humber College - Toronto, On

2005-2007

Advanced Diploma w/ Honours - **Computer Programming Analyst** Java Specialization