Software Quality Assurance Analyst

Location: Vancouver, BC

Salary: Negotiable depending on experience

Who are we?

Copperleaf is committed to building a better world, one decision at a time. As one of the top 20 Fastest-Growing Software Companies in Canada and winner of the BC Tech 2016 Emerging Company of the Year Award, Copperleaf is a dynamic and disruptive organization offering exciting opportunities for growth and innovation. Our world-class decision analytics software, C55, empowers companies managing critical infrastructure to make faster, smarter, greener and more strategic investment decisions.

How would you spend $1 billion?

Large energy and water providers deal with that question every day. Copperleaf's C55 enterprise software solution is designed to help answer tough questions like: How do you determine the best time to build a new wind farm, overhaul a power transformer or upgrade a dam? What should you invest in first? Which projects are the most critical? Not easy questions, but our systems help our clients successfully find the answers.

What's it like here?

When you step into Copperleaf's offices, you'll find a **culture** that fosters excellence, and a world-class team of innovators that inspire one another to grow, learn, and improve. We cultivate an atmosphere of openness and support where all opinions and

ideas are valued and encouraged, and where teamwork is key to success. Our flexible work environment fosters creativity, quality and balance.

The opportunity

We are looking for a talented and motivated **Software Quality Assurance Analyst** to be a member of our software QA team, actively participating in the integration and testing of C55, our enterprise software solution. Our team members have a track record of delivering award-winning, industry-changing solutions. Work with them, learn from them, be part of the team.

What skills will you use?

This position provides an excellent opportunity to use and enhance your skills in the following areas:

- hands-on experience with web technologies used in sophisticated web products
- creation of new test plans to enhance our constantly growing suite of QA tests and enhance testing coverage
- involvement in the integration and testing of newly developed features
- regression testing the product prior to new version releases
- experience in source code control and life cycle of a large software project

Combine what you've learned with your past QA experience to test our product, suggest improvements, and help make it even better.

Our products use a number of different technologies including: C#, ASP.NET, JavaScript, HTML5, TypeScript, AngularJS, NHibernate, and Oracle.

About you

Let us know if you're a fit for this challenging opportunity. You have the following background but we also recognize that talent comes in many forms:

- you're a graduate in computing science, engineering or a related field
- past experience in QA testing and developing test plans
- experience with databases such as Oracle
- strong technical skills with attention to detail
- solid problem solving skills, with an ability to quickly identify, isolate and characterize problems found
- self-motivated, flexible, pragmatic, proactive and able to handle a variety of tasks
- excellent interpersonal skills including: teamwork, respect, courtesy, and discretion
- exposure to object-oriented languages, web technologies and UIs, and relational databases would be an asset

We're not hung up on how many years of experience you may have with a particular language or technology. However we like to see skill, passion and creativity in the work you've accomplished.

MLA Citation

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JOSHUA MACDONALD

3166 WEST 10 AVE, VANCOUVER, BC, V6K 2K9

604-802-3775 --- josh.a.macdonald@gmail.com

TECHNICAL SKILLS

Programming Languages: Java, C/C++, HTML, JavaScript, SQL, Jade

Other Skills: Node.js, JUnit, Unix, MongoDB, Github, Selenium IDE, JSON, OOP and Design, SVN

RELEVANT PROJECTS AND EXPERIENCE

Comic Book Website   January – April 2016

- Created a comic book website with different user capabilities using REST architecture.
- Used Node.js framework, MongoDB to store data, and Bootstrap for interface design.
- Used Ajax to create seamless user interface.

Skills: Bootstrap, REST, Ajax, MongoDB, Node.js,

Exploratory C++ Project: Puzzle Solver   January – April 2016

- Helped create a general puzzle solver.
- Implemented how various data structures would handle deletions and insertions in C++.
- Performed runtime analysis to see which data structures were best for solving particular puzzles.

Skills: C++, gdb, data structures, algorithms

Exploratory C Projects: Unisex Bathroom Problem   January – April 2016

- Created a scenario in in which men and women could legally access a single bathroom while the code ran asynchronously.
- Used threading to make code asynchronous.
- Used spinlocks and mutex locks to prevent race conditions from occurring.

Skills: C, gdb, Linux

Meetup App, February   April 2015

- Built a scheduling application developed in Java for Android devices, implementing object-oriented design.
- Fetched and parsed location data from Foursquare web API in JSON to provide information to user.
- Embedded Google maps and location services (GPS) API to offer real time rerouting

Skills: Java, Android, IntelliJ, APIs, JSON Parsing

OTHER WORK EXPERIENCE

Lifeguard and Swimming Instructor, UBC Aquatic Centre   May 2015 - Present
- Maintain first aid standards around pool environment.
- Teach basic to intermediate swimming skills to children and adults.
- Maintain the chemical and pH balance of the pool.

Sailing Instructor, Surrey Sailing Club   May 2011 – August 2012
- Taught basic to intermediate sailing skills to children and adults.
- Maintained Canadian standard of teaching to all students.
- Acted as boat safety attendant during races and regattas.

Sales Associate, Top to Bottom Home Services   May 2014 – August 2014
- Went door-to-door selling home services to homeowners.
- Provided expertise of home repairs and services to homeowners
- Obtained between 8 to 10 quotes per work day.

EDUCATION

Bachelor of Computer Science, UBC   September 2015 – Present
- Learning about computer science, including broad subjects of software development, computer hardware, data structures, memory usage, and databases.

Bachelor of Science in Geographical Biogeosciences, UBC   September 2010 – May 2015
- Focused on mapping and spatial analysis using geographical information systems (GIS).
- Studied climatology, geomorphology, and hydrology.

Associate Degree in Piano Performance, Royal Conservatory of Music
August 2011
- Learned and performed expert level piano pieces from various historical periods.

INTERESTS

- Biking
- Swimming
- Running
- Sailing
- Video Games
- Piano

Joshua MacDonald
3166 West 10 Ave
Vancouver, BC, V6K 2K9

January 9, 2017

Copperleaf Technologies Engineer
2920 Virtual Way, Suite 140
Vancouver, BC, V5M 0C4

Re: Software QA Analyst

Dear Mr. Hiring Manager,

I would like to become a part of such an important and successful company. With my
dedication, knowledge and enthusiasm I could make a real contribution to the Copperleaf
team. The combination of my technical skills and experience gained through working make me
an ideal candidate for this position.

Throughout my time as a computer science student, I have learned how critical testing is to
ensure the maintained quality of a program. At SALA, debugging and fixing problems with a
large C# program was one of my core duties. Due to the size and complexity of the program I
was working on, fixing bugs often involved innovative solutions. Using the Scrum development
framework, I helped create a RESTful comic book web application written in Javascript using
node.js. Mocha unit tests and Selenium IDE were used to ensure the quality of the program.

Working as a lifeguard and swimming instructor has taught me the importance of
communication and openness when working in a team. As a salesman, I experienced firsthand
how bringing a positive energy to the workplace makes everything run more smoothly. As a C#
Developer, I found that my strong attention to detail and outside of the box thinking helped to
me to succeed when solving bugs and adding features.

Thank you for taking the time to review my application, I look forward to meeting with you to
discuss how I will add value to your team.

Sincerely yours,

Joshua MacDonald

March 28, 2017

Brian Klinkenberg
UBC Geography Department
1984 West Mall,
Vancouver, BC V6T 1Z2

Dear Brian,
Re: Request for Reference Letter

I am currently in the process of applying for the position as a Quality Assurance Technician at Copperleaf I am writing to you to request a letter of reference, as I feel that your endorsement would improve my application.

Copperleaf is a Vancouver-based tech company that specializes in making decision analytics software. The software they provide help large energy and hydro companies handle difficult business decisions. These decisions help the companies to manage their assets in an optimal way. They are looking for a candidate with programming experience who can help maintain the functionality of their award winning program.

As my professor for several classes and my liaison for my directed studies, you have observed the dedication to producing quality work. Your description of my previous work while working with you would help prove my qualifications and would enhance the credibility of my application to Copperleaf.

If you need any clarification for writing this letter of reference, feel free to contact me at josh.a.macdonald@gmail.com. Thank you for your time.

Best Regards,

Josh MacDonald

March 28, 2017

Kellogg Booth
ICCS Building
1210 West Mall,
Vancouver, BC V6T 1Z4

Dear Kellogg,
Re: Request for Reference Letter

I am currently in the process of applying for the position as a Quality Assurance Technician at Copperleaf I am writing to you to request a letter of reference, as I feel that your endorsement would improve my application.

Copperleaf is a Vancouver-based tech company that specializes in making decision analytics software. The software they provide help large energy and hydro companies handle difficult business decisions. These decisions help the companies to manage their assets in an optimal way. They are looking for a candidate with programming experience who can help maintain the functionality of their award winning program.

As my boss during my co-op at the School of Architecture and Landscape Architecture, you have observed my dedication to creating quality work. You have also seen why I would be a strong candidate as a QA Technician as troubleshooting and debugging played a large component of my work under you. Your description of my previous work while working with you would help prove my qualifications and would enhance the credibility of my application to Copperleaf.

If you need any clarification for writing this letter of reference, feel free to contact me at josh.a.macdonald@gmail.com. Thank you for your time.

Best Regards,

Josh MacDonald

March 28, 2017

Michelle Barsalou-Bumpus
Piano Teacher
1210 West Mall,
Vancouver, BC V6T 1Z4

Dear Michelle,
Re: Request for Reference Letter

I am currently in the process of applying for the position as a Quality Assurance Technician at Copperleaf I am writing to you to request a letter of reference, as I feel that your endorsement would improve my application.

Copperleaf is a Vancouver-based tech company that specializes in making decision analytics software. The software they provide help large energy and hydro companies handle difficult business decisions. These decisions help the companies to manage their assets in an optimal way. They are looking for a candidate with programming experience who can help maintain the functionality of their award winning program.

As my piano instructor for over 10 years, you saw me develop my skills and become an expert level performer. You observed the dedication I had to the perfection of any piece that I needed to perform. Your account of my work ethic would help to enhance my application to Copperleaf.

If you need any clarification for writing this letter of reference, feel free to contact me at josh.a.macdonald@gmail.com. Thank you for your time.

Best Regards,

Josh MacDonald