Mark Obad

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WORK EXPERIENCE

SAP | Developer   Vancouver, BC Canada | Aug 2017 – Present
- Maintained and added functionality to a multi-dimensional OLAP database built on top of SAP HANA (C++)
- Implemented a remote blending protocol for joining local and remote data sources together
- Optimized the remote blending protocol to significantly reduce its compressed serialized size and greatly increasing its performance
- Maintained an older Java REST database connector and replaced it with a simpler Rust implementation

SIMBA TECHNOLOGIES | Computer Scientist   Vancouver, BC Canada | Aug 2015 – Jul 2017
- Designed and maintained a high performance database wire protocol (C++)
- Developed a JDBC client of said wire protocol (Java)
- Performed extensive profiling and optimization to make the wire protocol perform consistently 2x+ faster than the Postgres Wire Protocol
- Identified and fixed many hard to replicate bugs that helped improve the overall stability and performance of the product

POINT GREY RESEARCH | Software Developer Co-op   Richmond, BC Canada | May 2013 – Dec 2013
- Responsible for developing and maintaining software capable of testing approximately 50 cameras simultaneously while communicating with several external devices (C#)
- Created a command line version of the camera testing software to automate nightly testing using multiple cameras (C#)
- Developed a build versioning system to automatically version various company software with a globally unique incrementing version (Perl, MSSQL)
- Added barcode reading functionality to a camera board programming robot (C#)

SKILLS

Programming Languages	C++, Java, Rust, C#, Python, Go, Bash
Software	Git, SQL, OLAP, GDB, Ghidra, Wireshark, Linux

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA | BS Computer Science   Vancouver, BC Canada | May 2015

PATENTS

REMOTE DATA BLENDING US20190347350A1 (Pending) | Jul 2018

AWARDS

1ST PLACE IN SAP CYBER SECURITY MONTH CTF 2019 SAP | Oct 2019
Tied for 1st in the Jeopardy style CTF qualification round and 1st in the Attack-Defence finals. Worldwide internal CTF with ~1000 competitors.

1ST PLACE IN SAP CYBER SECURITY MONTH CTF 2018 SAP | Oct 2018
Tied for 1st in the Jeopardy style CTF. Worldwide internal CTF with ~1000 competitors.

PERSONAL PROJECTS

RUSTICHIP8 | Rust   github.com/mobad/rustichip8
Basic CHIP-8 emulator written in Rust