Nalaka Jayanath

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**Technologies**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* C++, C, Python, C#, Java, HTML, CSS, JavaScript, JSP, MATLAB, MySQL
* STL, Qt, WPF, Windows Forms, MFC, ATL, MsTest, CppUnit

**Experience**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Software Engineer (Senior 1) | C++, Qt Core, Qt Widgets, Python, bmcollect, Valgrind, Callgrind, regression, benchmark, perforce, GDB and DDD, Linux

[Synopsys](https://www.synopsys.com) | Dec 2018 – Present

* [Verdi](https://www.synopsys.com/verification/debug/verdi.html) source code viewer Qt implementation. (Received “Applaud” award)
* Implemented Qt source viewer with over 30 features.
* Speeded up other windows Qt porting by implementing a framework.
* Achieved better maintainability via refactoring legacy code.
* Motif to Qt dialog porting. (Received “Above and Beyond” team award)
* Achieved better performance and user experience.
* One of the leading developers of the project.
* Improved team performance by Guiding and helping junior Engineers with orientation sessions, knowledge sharing sessions, daily sync ups. (Received “Applaud” award)
* Maintained quality of work by keeping 0 warnings, 0 COVERITY, 0 Valgrind, 0 benchmark, 0 regression failures and by adding regression test cases to keep 85%> line coverage.
* Speeded up manual regression test creation process by creating a python tool.
* Accelerated manual GUI validation process with a Machine Learning based approach. (Team project for an internal competition)

Software Engineer | C++, C#, COM, ATL, Windows SDK, Windows Services, MFC, USB drivers, Multi IDE, USB protocol analyzer, JTAG hardware debugger, Windows Forms, WPF, MSTest, CppUnit, ClearCase, Git

[Zebra Technologies](https://www.zebra.com/ap/en/about-zebra.html) | Jan 2017 – Dec 2018

* Designing and Implementing [SMS](https://www.zebra.com/us/en/support-downloads/software/utilities/scanner-management-service-for-windows.html) (version 4.0).
* Speeded up barcode scanner’s configuration update by 10x and firmware update by 2x.
* Improved code quality of [123Scan](https://www.zebra.com/ap/en/products/software/scanning-systems/123scan.html) by writing automated tests.
* Improved code quality of some modules of Windows Scanner SDK by removing all warnings.
* Accelerated testing process for some barcode scanner types (ex: MP7000) with test automation.
* Developed and tested barcode scanner firmware.

Software Engineer Intern | C++, DirectX 11, SVN

[SimCentric Technologies](https://www.simct.com/) | Oct 2015 – March 2016

* Getting monitor details of a multi monitor system.
* Capturing desktop screen using DirectX 11.

**Projects**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Leakage-resilient storage scheme and a leakage-resilient refreshing protocol implementation to prevent side channel attacks.
* C++, CUDA C++
* Web-based ARM instruction set simulator.
* HTML, CSS, JavaScript, AJAX, jQuery, PHP
* An electronic speaking glove which helps people who cannot talk.
* Arduino programming
* 2D single player android game.
* Unity, C#
* Simple blogging system.
* HTML, CSS, Java Servlet, JSP

**Education**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B.Sc. Engineering (Hons) Graduate of Department of Computer Engineering, Faculty of Engineering, University of Peradeniya, Sri Lanka. (2016)

**Hobbies**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Playing Chess and listening to music