**Ronn Jacob**

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**https://ronnjacob.github.io**

AVAILABLE: **May-Dec 2019**

EDUCATION

**Northeastern University,** Boston, MA

Khoury College of Computer Sciences August 2018 – Present

Candidate for a Master of Science in Computer Science Expected graduation: May 2020

GPA: 4.0

Related Courses: Programming Design Paradigms, Artificial Intelligence, Web Development, Algorithms

**National Institute of Technology Calicut**, Kerala, India May 2016

Bachelor’s Degree in Computer Science & Engineering

Related Courses: Image Processing, Advanced Computer Networks, Database Management Systems, Data

Mining, Computer Organization, Introduction to Robotics, Operating Systems.

Activities: Cultural Festival Web-Design & Media Committee Member, University Magazine Executive

TECHNICAL KNOWLEDGE

**Languages:** Java , C++, Python, , C#, Scheme, OCaml

**Systems:** Linux, Windows and macOS

**Database:** SQL Server, MySQL, SQLite, MongoDB

**Web:** Javascript, jQuery, HTML5, CSS, PHP, Bootstrap, React

**Version Control:** Git, TortoiseSVN

WORK EXPERIENCE

**Philips**, Bangalore, IndiaJune 2016 – July 2018

Software Engineer

* Developed medical workspace applications for CT & MRI imaging modalities in an agile environment conforming to DICOM standards and responsibilities included maximizing code coverage, bug fixes and feature development.
* Implemented proof of concepts involving RDP protocols for remote viewing of PACS applications with active communication across Computed Tomography team reaching target a quarter early.
* Contributed to migration of platform subsystem modules to HealthSuite device cloud using IBM Bluemix.
* Upgraded features in medical image acquisition (for various medical imaging modalities – MRI, CT, Ultrasound) related modules using C#, .NET and Python reducing number of defects, regression test failures and led team towards quicker stability receiving recognition award for taking ownership.
* Collaborated with 2 developers for implementation of a reliable design for speech enabled medical workflow application for healthcare platform hackathon fixing security loopholes within existing design serving as a detailed and secure reference for following quarter.

**Al-Hasawi Group,** Kuwait May – July 2015

Software Engineering Intern

* Developed an improved user interface for organization’s human resource management system (HRMS) using HTML5, CSS3, Bootstrap, C# and WPF with team of 4.
* Implemented retrieval code and modified queries improving performance of data retrieval by 14% for client

data fetches using SQL, TOAD and C#.

* Optimized code for retrieval of monthly shipment data and implemented scripts to automate consolidation of information using a scheduler.

ACADEMIC PROJECTS

**Efficient solution for the Cartpole problem using reinforcement learning.** October – December 2018

* Successfully implemented Q-learning and deep Q-learning agents to obtain an optimal policy for solution.

Tools: Tensorflow, Keras, Python, PyCharm

**Nucleus – A P2P image sharing application employing compression.** August 2015 – May 2016

* Developed an Android application using an optimal lossy image compression algorithm and image processing techniques to reduce sizes of images to be sent over a full duplex Wi-Fi Direct transfer.

**Online Restaurant Finder.** October –November 2016

* Developed a web application for finding restaurants based on user’s cuisine and location preferences for university

locality using Bootstrap, Javascript, PHP & SQL.