

Ronn Jacob

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Available: May–August 2020

EDUCATION

Northeastern University, Boston, MA GPA: 3.91
Khoury College of Computer Sciences August 2018 – Present
Candidate for a Master of Science in Computer Science Expected graduation: December 2020
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, Data Structures, Algorithms, Introduction to Robotics, Operating Systems.
Activities: Cultural Festival Web-Design & Media Committee Member, University Magazine Executive, Music Club

TECHNICAL KNOWLEDGE

Languages:	Java, C++, Python, C#, Scheme, OCaml
Database:	SQL Server, MySQL, SQLite, MongoDB, JPA, PostgreSQL
Web:	Javascript, jQuery, HTML5, CSS, PHP, Bootstrap, React, Express, Node.js, Spring Boot, REST
Others Tools:	Git, TortoiseSVN, Tensorflow, Keras, Python, PyCharm

WORK EXPERIENCE

Philips, Andover, USA May 2018 - Present
Systems Engineering Co-op

- Formulated and implemented solutions for scale to run on hosts to automate registration of hosts to server as trusted clients and retrieving CA certificates, saving time for other system engineering tasks in the DevOps pipeline.
- Implemented C# solutions for efficient distributed patient monitoring systems host performance testing, making it easier to narrow down root cause quickly for performance dips for specific build deployment.

Philips, Bangalore, India June 2016 - July 2018
Software Engineer

- 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.
- Upgraded features in image acquisition 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.
- Formulated and implemented shipment data retrieval code for large sets of data and modified queries improving performance of data retrieval by 70% for client data fetches using SQL, TOAD and C#.

PROJECTS

What's Cooking – A website for all your recipes. March - April 2019

- Designed and implemented MVC single-page application using React, Mongoose, Express and Node.js (MERN), allowing users to register for, and add/search for recipes with RESTful Web services depending on user role.

Portfolio Manager October - December 2018

- Designed and implemented a portfolio management system using Java for a client to invest in stocks with given strategies or custom user strategy, using various creational design patterns like Factory, Singleton & Builder pattern.

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

- Developed Q-learning and deep Q-learning agents to obtain an optimal policy for Cartpole problem 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.