Leo Espinal

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TECHNICAL SKILLS:
Operating Systems: Windows, macOS, Linux (Ubuntu 14, CentOS 6.5/7, SUSE Enterprise Linux Server 11), iOS, Android
Development Tools: Git, GitHub, Perforce, Jenkins, IntelliJ IDEA, WebStorm, Eclipse, Xcode 8
Design Tools: Sketch 3
Programming Languages: Swift 3, Java, C, UNIX shell scripting, HTML5, CSS3, JavaScript, JQuery, TypeScript, Python

EDUCATION:
Udacity iOS Nanodegree Program Student **Enrolled, March 2017**

Boston University, Boston, MA **2016-Present**
Master of Science, Computer Science

RELATED COURSEWORK:
Data Structures w/Java Analysis of Algorithms Web Application Development Software Engineering

Wentworth Institute of Technology, Boston, MA **Graduated, August 2015**
Bachelor of Science, Computer Engineering Technology
GPA: 3.7
Dean's List **Fall 2011- August 2015**
Wentworth Leadership Institute Member **Spring 2012-August 2015**
Merit Scholarship and National Co-op Scholarship Recipient
President's Award Recipient **Spring 2015**

PROJECTS:
iOS App: Pitch Perfect **May 2017**
- A fun little application that allows for the user to record their voice and play it back at a different rate, pitch, echo, or reverb.
  - Fully developed in Swift 3, uses UIKit Framework and AVAudioFoundation

GitHub URL: https://github.com/leoespinal/Pitch-Perfect.git

iOS App: MemSim **November 2016**
- MemSim is a memory management simulator which serves as a teaching tool for computer science students who are taking or have taken a course in Operating Systems and want to learn more about how the paging memory management scheme works within an Operating System.
  - Fully developed in Swift 3, uses UIKit Framework objects and protocols (UISplitView, UITableViewController, UITableViewDelegate, UITableViewDataSource)

GitHub URL: https://github.com/leoespinal/iOS-Memory-Management-Simulator.git

EXPERIENCE:
EMC Corporation: Hopkinton, MA **August 2015-Present**
Software Engineer, VMAX
Developed and maintained embedded software service that manages the installation and upgrades of virtualized applications running in the VMAX storage array. Currently working on the front-end development of Unisphere for VMAX application.
- Project: Unisphere Work Load Processing Application Development **July 2017- Present**
  - Collaborate with developers to further enhance the work load processing application UI/UX.

- Project: Embedded Cloud Services **January 2016-January 2017**
  - Collaborate with various engineering and development teams to deliver cloud services as an embedded application on the VMAX3
  - Participate in design proof of concepts projects and design reviews
  - Support further development of the virtualized applications software platform
- Project: eNAS FAST Hinting **September 2015-December 2015**
  - Proof of concept performance analysis of embedded NAS UXFS64 file systems within the VMAX3 storage array
  - Objective: Write a program that interacts with the Symmetrix storage array API to promote file system metadata to FAST storage engine for performance optimization. Generate synthetic system workload for file system performance characterization and resource utilization analysis.

Languages: C, UNIX shell scripting, HTML5, CSS3, SCSS, TypeScript

EMC Corporation: Franklin, MA **January 2014-August 2015**

Hard Disk Drive Evaluation Engineer (Co-op)

- Test the reliability and functionality of SAS and SATA hard drives for implementation in large scale network storage systems.
- Implement and design Python scripts for test automation to issue various commands to the drives.
- Performed HDD firmware testing to identify firmware bugs that could cause issues in the field.
- Use data analysis techniques to determine trends in drive failures which were included in weekly reports.
- Developed software, testing procedures and documentation for various device level functional tests.
- Learn about SAS and SATA drives commands and protocols.

Software Project: Developed a desktop GUI for test automation and simplification using the MFC (Microsoft Foundation Class) library within a Visual Studio development environment.
Languages: C/C++, Python

Apple Inc.: Boston, MA **November 2011 – December 2013**

Technical Specialist

- Knowledgeable of all Apple products and customer solutions
- Provide customers with various opportunities to interact with current technology
- Assist customers with technical and non-technical problems regarding Apple products
- Deliver exceptional customer service to build long lasting relationships

Iron Mountain Inc.: Boston, MA **June 2013-August 2013**

IT Intern

- Provided Level 2 support to all internal executive employees from contractors to VPs
- Deployed Windows 7 32-bit Enterprise Project to all business machines during company REIT conversion
- Maintained all HP business laptops and desktops while doing hardware and software repairs
- Collaborated with global IT support team to ensure technical resources were accessible
- Assisted remote employees working in several corporate and field locations around North America

ACTIVITIES/CLUBS:

- National Society of Black Engineers **Academic Excellence Chairperson (2012-2013)**
  - Supported general body members in pursuit of successful academic achievement
  - Provided members with information on academic resources and raised awareness about scholarships
- Wentworth IEEE Club **Member (2013-2015)**

VOLUNTEER EXPERIENCE:

Project Hill Farm Community Harvest: Harvard, MA **September 2015**

- Picked apples that were going to be donated to local food banks and sold via farmers markets with my EMC team members.

Esplanade Clean Up: Boston, MA **June 2013**

- Helped clean up trash along the Esplanade over the summer with fellow interns during my internship with Iron Mountain.

INTERESTS:

- Mobile Application Development (iOS/Android)

LANGUAGES: Fluent in Spanish