

Daniel F. Sabbagh

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Education

University of Maryland, College Park 2009 – 2013 (expected)

Major GPA: 3.1

- B.S. in Computer Engineering
- University Honors Program

Work Experience

Associate Software Engineer, designAmerica Inc.

July 2013 – present

- Developed telemetry trending widgets using the Abstract Windowing Toolkit (AWT) in Java
- Developed multithreaded background event message logging module in Visual C++
- **Developed WYSIWYG telemetry display tool in Java for use by NASA/GSFC operators to monitor spacecraft health and safety**
- **Introduced automated unit testing methodologies to company by writing unit tests for aforementioned product using JUnit with Mockito framework**
- Logged many hours debugging network anomalies and assisting clients in support of company products
- Awarded Employee Of The Year 2014

Intern, Eritek Inc.

May 2012 – January 2013

- Used C++ to program a custom-built computer (PC104) to control and trigger three hi-speed SWIR cameras to synchronously capture data at a maximum of 60 frames per second
- Implemented various routines using MATLAB to verify integrity and synchronization of collected data
- Created a GUI for user-friendly control of the cameras using the Qt C++ GUI Framework
- Spearheaded development on an OpenCV-based application which would perform various image processing routines on collected data for further analysis

Notable Highlights

Operating Systems, University of Maryland

August 2012 – December 2012

- Implemented fundamental features such as multithreading, synchronization, virtual paging and resource scheduling policies to an OS with a simplified Linux-based kernel (geekOS)

Relevant Coursework

Object-Oriented Programming	Computer Architecture	Concurrent Programming
Low-Level Programming	Algorithm Complexity	Network Security
Operating Systems Design	Software Engineering	Control Systems

Relevant Skills

Operating Systems:	Windows 7, Linux (Ubuntu, RHEL)
Programming Languages:	Java, C/C++ (Qt, GTK), Ruby, bash, jQuery (learning), MySQL
Tools/Frameworks:	git, maven (learning), Spring (learning), JUnit, Mockito
Applications:	Microsoft Office, Eclipse, GDB, VirtualBox/VMWare
Foreign Language:	Arabic

Miscellaneous

Side Projects

Various

- Developed and deployed simple GETful web resource using Spring Boot to notify church members of upcoming worship music for each Sunday Service (<https://mysterious-mesa-5118.herokuapp.com/>)
- Built personal website using Jekyll static website generator