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**

- Wrote BaSH scripts to help automate setup of new development machines
- 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 testing methodologies to company testing strategy by writing unit tests for aforementioned product using Junit and Mockito**
- Awarded Employee of the Year for 2014
- Logged many hours debugging network anomalies and assisting clients in support of company products
- **Developed and maintained internal company website using Bootstrap**

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 graphical interface 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 polices to an OS with a simplified Linux-based kernel

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, perl, MySQL
Applications:	Microsoft Office, Eclipse, GDB, VirtualBox/VMWare
Foreign Language:	Arabic

Miscellaneous

Side Projects

- Developed and deployed simple GETful web resource using Spring Boot to notify church members of upcoming worship music for each Sunday Service (http://playhymns.herokuapp.com)
- Built personal website using Jekyll (www.danielsabbagh.com)