

Gregory Fiumara

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Objective

Seeking a computer scientist position in which professional experience in biometrics programming and systems design and administration will enhance an organization's efficiency in achieving its goals, both short and long-term.

Experience

National Institute of Standards and Technology - Gaithersburg, MD, *Computer Scientist* 06/08 - Present

- Co-authored all aspects of FpVTE2012, NIST's distributed large-scale one-to-many fingerprint evaluation.
- Contributed bug fixes to wasbi 2, an iOS client reference implementation of the OASIS WS-BD standard.
- Co-authored the NIST Image Group's *BiometricEvaluation Framework*, a collection of well documented and POSIX compliant C++ classes simplifying biometric evaluation test-driver code for rapid results.
 - Significant hierarchies include image decompression, biometric file format parsing, data storage abstractions, automatic memory management, distributed deployment, and more.
- Served as liaison and sole developer for NIST's Ongoing MINEX and PFTII biometric evaluations.
 - Co-author NISTIR 7821: *PFT-II Report*
- Supported various aspects of NIST's MINEX II, ELFT, NFIQ2, IQCE, and IREX III biometric evaluations.
 - Co-author NISTIR 7836: *IREX III: Performance of Iris Identification Algorithms*
- Provided development support to the NIST Biometric Image Software (NBIS) team.
- Administered Linux/Windows clusters, Cisco Ethernet switches and fibre directors, and multi-hundred TB StorNext parallel file systems running atop redundant Promise and EMC SANs with tape archival.
- Designed and developed a web application using PHP/PostgreSQL for export-controlled NBIS distribution.

Gregory Fiumara - Frederick, MD, *Sole Proprietor* 01/10 - Present

- Developer of iOS applications, including *Tappd That*, *DAS Calculator*, and *Picture Sleuth*.
- Moderately active in developer circles, including GitHub (gfiumara) and Stack Overflow (277718).
- Ad-hoc consultation and service for various businesses, including custom iOS app development, Mac OS X Server support, and web app installation/configuration.

The Retriever Weekly, UMBC's Student Newspaper - Baltimore, MD, *Technology Manager* 10/06 - 12/09

- Help lab users overcome computer difficulties, ranging from networking or other account problems to support for various Adobe publication products and in-house web applications.
- Oversee technology staff while maintaining and improving lab infrastructure. Work closely with UMBC IT.

Department of Computer Science at UMBC - Baltimore, MD, *Grader* 02/08 - 05/08

- Grade approximately forty Java projects biweekly for CMSC 202 - Computer Science for Majors II.

Education

Johns Hopkins University - Baltimore, MD 09/10 - 08/12
MS computer science, with honors. 4.0 GPA.

University of Maryland, Baltimore County - An Honors University in Maryland 08/06 - 12/09
BS computer science, cum laude. Certificate of general honors. 3.72 GPA.

Frederick County Career and Technology Center - Frederick MD 08/03 - 06/05
High School Diploma: Walkersville High School - Walkersville, MD 08/02 - 06/06

Skills and Tools

- Skilled with the Mac OS, Linux and UNIX derivatives (RHEL/CentOS, Ubuntu, FreeBSD), and Windows.
- 5+ years professional experience in C, C++. 4+ years personal experience in Objective-C with CocoaTouch, Java. Collegiate experience with Java and countless other languages and SDKs.
- Source code management with Perforce, Git, and Subversion. Defect tracking with Bugzilla and Trac.
- IDE experience with Xcode (Objective-C, C++), Eclipse (Java). Proficient with vim.