

Damon Earp

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Education

B.S. Computer Science University of Maryland, College Park **August 2011**
B.A. Graphic Design West Virginia Wesleyan College **Minor: Mathematics** **April 2006**

Coursework and Skills

Advanced Coursework: Data Structures, Advanced Computer Architecture, Cryptology, Networking, Algorithm Design and Implementation, Linear Algebra, Video Game Programming
Languages: Java, C, C++, SQL, Javascript, XSLT, PL/pgSQL, Ruby, Python, PHP, Actionscript 3, C#
Technologies: JavaEE (Servlet, JPA, JAXB, Mail), Apache Pivot, Apache Maven, Subversion, JQuery, Java Web Start, OpenGL, ExtJS, Adobe Flex, Google Web Toolkit
Databases and Servers: PostgreSQL, Glassfish, Apache Tomcat, MySQL, Apache HTTP Server, Apache Derby
Operating Systems: Apple OS X, Microsoft Windows (7, XP, 2000), Debian, Ubuntu, Red Hat Enterprise
Software: Netbeans, Emacs, Eclipse, Adobe Photoshop CS3, Adobe Illustrator CS3, Visual Studio 2010

Professional Experience

Faculty Research Assistant LCCD, University of Maryland, College Park, MD **February 2008 – Present**
Programmed for the Laboratory for Computational Cultural Dynamics (LCCD). Created an application for predicting the location of High Value Targets using a Geospatial Prediction Algorithm, designed by the lab, the application is currently being used by deployed military personnel in Afghanistan. Developed a Natural Language Processing tool, specifically Information Extraction that finds named entities in a corpus of documents and calculates frequency analytics. Designed and implemented a spreadsheet API for writing and reading Excel as well as text based spreadsheets through a unified interface. Designed relational database schemata for large data sets, tables and indices several gigabytes in size, and created applications for populating, viewing and analyzing the data sets. Worked with graduate students, anthropologists, political scientists and professors including a former Minister of Education, Science, Technology and Scientific Research of Rwanda, to create utilities and applications for their research. Translated between the needs of Computer Scientists, developing analytical algorithms, and the needs of Anthropologists and Political Scientists, analyzing the data, to create a data model flexible and usable by both groups. Data sets modeled terror group's environment and actions, education systems, and body language of various cultural groups. Taught basic Computer Science to a Rwandan student, studying abroad with the goal of becoming a contact for the lab overseas. Worked on projects for DARPA, Lockheed Martin, and the Army Research Office.

Student Programmer UMIACS, University of Maryland, College Park, MD **July 2007 – February 2008**
Implemented an Issue-Tracking System for the University of Maryland Institute for Advanced Computer Studies' IT department. Used JavaEE servlets, Apache Tomcat and MySQL. The application processed and sent emails as well as provided organizational and prioritizing features to help desk workers.

Student Programmer ADAPT Project, University of Maryland, College Park, MD **September 2006 – July 2007**
Worked on the ADAPT project, an Approach to Digital Archiving and Preservation Technology. Programed in Red Hat Enterprise Linux and developed web applications with JavaEE, Tomcat, and Google Web Toolkit interacting all interacting with MySQL server. Maintained the project's web page.

Internship Sunset Graphics, Buckhannon, WV **Fall 2005**
Designed vector graphics for t-shirts, signs and maps using Corel graphics software.

Conservation Work Crew Philmont Scout Ranch, Cimarron, NM **May 2004 – August 2004**
Focused on construction and maintenance of trails and campsites across the ranch and Carson National Forest.

Program Counselor Philmont Scout Ranch, Cimarron, NM **May 2003 – August 2003**
Provided programs to the participants and customer service.

Extracurricular

Pacific Crest Trail National Scenic Trail **April 2009 – September 2009**
Completed a thru-hike of the Pacific Crest Trail, from the Mexican Californian Border to the Washington Canadian border.

Eagle Scout Boy Scouts of America **November 2002**