#### Andre Young

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# EXECUTIVE SUMMARY

Senior developer and team lead with over 15 years of experience and a commitment to delivering quality solutions that exceeds expectations. To obtain a position that will utilize my strengths and experiences while allowing me to grow and learn new techniques and skills both technical and professional.

# SKILLS

* Angular.js 1.x
* C#
* VB.NET
* JavaScript /Node.js
* Node.js
* HTML
* CSS
* GIT
* Automated Testing
* Agile Project Management
* Requirements gathering
* Community building
* Mentorship

# EDUCATION

**University of Maryland** College Park, MD

Major: Computer Science (Software design and Programming)

Degree: **Bachelors of Computer Science,** December 2002

**High Point High School** Beltsville, MD

Focus: Computer Information Systems

Honor Roll, Award for Academic Excellence

# SOFTWARE PROJECTS

**Virtual Folders**

* Designed and implemented a web application to organize, share, and secure project files. This application was created and maintained using SCRUM principles with 2week iterations. The core application components consist of the following:
  + Client/UI - Angular 1.x SPA for the client using a mixture of factories, directives, components and routes based on the best practices found in the Angular 1 Style Guide.
  + Web API –The Web API layer, written in C#, handle requests from the client, coordinating various service to produce a response.
  + Services, Repositories, and Entities – These services house the core business logic, data access and data entities.
  + Background Service – This service handle long running and background tasks such as change tracking and cache invalidation, etc. via the Service and Repositories DLLs mentioned earlier.
* Technologies: SQL Server 2012, Redis, Neo4j, Visual Studio 2015, ASP.NET 4.5.2 (Web API), JavaScript, Angular 1.x, Node.js, and various JavaScript libraries and NuGet Packages.

**Goddard Review Management System (GRMS 3.0)**

* Designed and implemented an internet based application to track project review Request for Action (RFA). This application is designed with three tiers for optimum security and portability.
* The User Interface (UI) employs a user centric design, designed to be intuitive and responsive. AJAX components give instant feedback.
* The Business Logic Layer (BLL) contains object oriented classes that organize all related functionality and encapsulates majority of the requirements. The BLL also contains notable non-requirement objects such as the application log object which captures system errors and reports them to the programmer and the button object which allows system administrators to create new functionality through the user interface.
* The Data Access Layer (DAL) manages all the access to the SQL Server 2008 database. Each object has a stored procedure that manages the searching, adding, deleting, loading and other functionality.
* Technologies: SQL Server 2008, Visual Studio 2008, ASP.NET 3.5, AJAX toolkit, jQuery

**Requirements Mapping Database**

* Designed and implemented an internet based application to principally track requirements throughout the life cycle of application development. This application also tracks inter relationships between all the principle objects of a web application which include but are not limited to the initial user requirements, code objects and functions, database tables and fields, user interface pages, and system bugs.
* The back end of this system is powered by a SQL Server 2008 database which employs numerous tables that represent the various objects and their relationships. Each principle object is managed by an intricate stored procedure designed to manage the various functionalities required by the application including adding, editing, deleting, searching, and creating dynamic links to other principle objects
* Technologies: SQL Server 2008, Visual Studio 2008, ASP.NET 3.5, AJAX toolkit

**Next Generation Integrated Network (NGIN)**

* Tailor large scale Document Configuration Management systems to meet the changing requirements of NASA’s Global Precipitation Measurement (GPM) project, Landsat Data Continuity Mission (LDCM) project and Stinger Technologies (SGT)
* Configure web and database servers along with several COTS programs to work harmoniously with NGIN
* Correct numerous bugs in legacy code and create code enhancements such as multiple document editing pages to make application user-friendly and increase efficiency.
* Take the lead in finding ways to make code modular and scalable for future implementations and additions.
* Provide system administrative support and training to GPM, LDCM as well as LUNAR projects.
* Technologies: Classic ASP, SQL Server 2005-2012, Visual Studio, ASP.NET 2.0

**Digital Math Library (DML)**

* Designed and implemented a system to share new mathematical theorems and ideas in an effort to increase collaboration and discussion between parties in remote locations of the world.
* Designed an Entity-Relationship Diagram that incorporated the requirements of the customer and the interface development group.
* Lead a team of five developers in developing a multi-table database using MySQL along with wrapper functions written in Java and SQL to access and translate data into a useful format.
* Assisted in writing documentation for application including the first and second draft of the Requirements document, the Specification document, and the help files.
* Technologies: Unix, GDB Debugger, Java, SQL, MySQL

# PROFESSIONAL EXPERIENCE

## Lead Developer Code 301 & Code 408 Supervisor: Colleen Ponton

## July 2012 – Current NASA: ASRC Federal 301-286-4428

## Hours/week: 40-45

## Lead development effort for PAAC IV Contract. This responsibility includes providing technical mentorship to the development team, planning and collaborating with senior management, application architecture and exploring new technologies for feasibility.

## Lead development effort for Satellite Servicing Capabilities Office’s (SSCO) NGIN application. This effort includes maintaining and enhancing the current NGIN application as well as architecting and implementing a new application using the latest technology and proven design principles.

* Initiated developer’s group meeting to share and leverage individual knowledge and skills across multiple contracts and Goddard Space Flight Center (GSFC). The group is also designed to tackle common problems such as redundancy and lack of communication between individual in-house applications.

## Upgrade and maintain Code 301’s Goddard Review Management System (GRMS 3.0) that tracks Requests for Action

## Senior Application Developer Code 301 & Code 700 Supervisor: Rob Swartz / Richie Weis

## July 2011 – July 2012 NASA: ASRC PRIMUS 301-286-6770 / 301-286-4428

## Hours/week: 40

* Upgrade and maintain Code 301’s Goddard Review Management System (GRMS 3.0) that tracks Requests for Action (RFA) from the various reviews on and off center.
* Analyze and design the next generation configuration management tool (MIS 2.0) to incorporate coding best practices, object oriented design, N-tier application layering, as well the flexibility to handle the previous 18 different variations of the MIS 1.0 versions in a single code base and database while maintaining the ability for each instance to have individual traits, functionality and processes.
* Support Student On-Line Application for Recruiting Interns, Fellows, and Scholars (SOLAR) an online application used by all NASA centers to allow students to apply for, and be selected for internships, fellowships and scholarships using a SQLServer 2000 database and ColdFusion 8 front end.

## MIS V (Senior Programmer) LRO & Code 301 Supervisor: Richie Weiss

## July 2007 – July 2011 NASA: ASRC Federal 301-286-4428

## Hours/week: 40

* Upgraded and maintained Code 301’s previous Goddard Review Management System (GRMS 2.0) that tracked Requests for Action (RFA) from the various reviews on and off center.
* Researched, designed and built the next generation Goddard Review Management System (GRMS 3.0) that employs modern design principles and tools such as Object Oriented code design, ASP.NET 3.5, AJAX Controls, SQL Server 2008, and other 3rd party tools.
* Manage project milestones and two other employees to maintain workflow and project deadlines.
* Created and maintain software requirement and development tracking and traceability tool which enable both programmer and client to find exactly where requirements are met throughout the application. This tool also provides a wealth of information during and after development that greatly increases efficiency and adaptability of the software it traces by tracking numerous inter relationships between code, database objects, user interface, requirements, etc.
* Tailor large scale ASP application (NGIN) that provides Action Items, Configuration Management, Drawings, Shared Files, etc. to meet the requirements of NASA’s Lunar **Reconnaissance Orbiter (LRO) p**roject.
* Work with outside sources to synchronize data with outside applications
* Manage SQL Server Databases for NGIN and GRMS systems with over 163 tables, 136 Views, and 47 stored procedures each.
* Tailor SQL Server store procedures, views, triggers, and general tables to match GRMS & LRO requirements while keeping portability and scalability in mind.
* Research alternative means for solving code related problems such as ASP.NET 3.5, SQL Server 2008, and Visual Studio 2008 and external CM tools such as CMIS.

## Software Engineer Peace Corps Project Supervisor: Barbara Schipper

## May 2007 - July 2007 Systems Management Engineering Inc. 703-525-7500

## Hours/week: 40

* Implement modules for Peace Corps’ Volunteer Information Database Application Project (VIDA) to transition from MS Access to a .Net 2.0 Winforms application. (MS SQL, ADO.Net, Data Dynamics ActiveReports, Infragistics NetAdvantage)
* Create Active Reports using VB.NET.
* Worked with team member to solve complex problems such as off line data synchronization.

## MIS III (Programmer) GPM & LDCM & LRO Supervisor: Fred Brooks

## February 2006 – May 2007 NASA: SGT Inc. 301-286-4428

## Hours/week: 40

* Tailor large scale Active Server Page (ASP) application (NGIN) that provides Action Items, Configuration Management, Drawings, and Shared Files along with numerous other modules to meet the requirements of NASA’s Global Precipitation Measurement Project, Landsat Data Continuity Mission (LDCM) and LUNAR project.
* Debug and rewrite pages that are not working correctly.
* Add new features to simplify and shorten current procedures.
* Provide user administrator duties.
* Manage SQL Server Database for 5 NGIN systems with over 163 tables, 136 Views, and 47 stored procedures each.
* Tailor SQL Server store procedures, views, triggers, and general tables to match GPM & LDCM requirements while keeping portability and scalability in mind.
* Lead and participated in group discussions to standardize NGIN Development in an effort to make the NGIN product portable and scalable.
* Implement changes to code and server in response to and to prevent security threats such as SQL Injection Attacks.
* Research alternative means for solving code related problems such as ASP.NET 2.0, SQL Server 2005, and Visual Studio 2005

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## ASP Programmer GPM & LDCM Supervisor: Fred Brooks

## April 2005 – February 2006 NASA: PRISM Inc. 301-286-4428

## Hours/week: 40

* Tailor large scale ASP application (NGIN) that provides Action Items, Configuration Management, Risk Management, Drawings, Shared Files, and numerous similar modules to meet the requirements of NASA’s Global Precipitation Measurement Project, Landsat Data Continuity Mission (LDCM) and LUNAR project.
* Debug and rewrite pages that are not working correctly.
* Add new features to simplify and shorten current procedures.
* Provide user administrator duties.
* Manage SQL Server Database for 5 NGIN systems with over 163 tables, 136 Views, and 47 stored procedures each.
* Tailor SQL Server store procedures, views, triggers, and general tables to match GPM & LDCM requirements while keeping portability and scalability in mind.
* Lead and participated in group discussions to standardize NGIN Development in an effort to make the NGIN product portable and scalable.
* Implement changes to code and server in response to, and to prevent security threats such as SQL Injection Attacks.
* Research alternative means for solving code related problems such as ASP.NET, SQL Server2005, and Visual Studio 2005

## Programmer Office of Multi-Media Services Supervisor: Jeffrey Hammer

## January 2003 – April 2005 Dept. of State: Viatech Inc. 202-647-7781

## Hours/week: 40

## Designed and coded an online application to order, track and manage certificates using ASP, SQL Server and JavaScript.

* Test and provide feedback on current and upcoming Viatech applications.
* Provide and research new ideas for applications.
* Researched and planned for the creation of an office wide system that will track new jobs, estimate job costs, track user time spent on each job, along with materials to gather true cost of each job.

**Document Specialist** Office of Multi-Media ServicesSupervisor: Jeffrey Hammer

## May 2002 – January 2003 Dept. of State: Viatech Inc. 202-647-7781

## Hours/week: 40

* Created layouts and posters using Photoshop7.0, Illustrator 10.0, and PageMaker7.0.
* Maintained Multi-Media Services supply stock using a Microsoft Excel spreadsheet application that I created.
* Light PC trouble shooting for the Customer Service branch of Multi-Media office

**Student Intern** Office of Multi-Media ServicesSupervisor: Phyllis Smith

**June 1999 – May 2002** **Department of State** 202-647-1105

## Hours/week: 40

* Set up a database using MS Access along with an intranet web site to request certificates.
* Set up a database using MS Access to organize and track printing jobs.
* Light PC trouble shooting for the Customer Service branch of Multi-Media Office.
* Created publication layouts using PageMaker 6.5 and Photoshop 5.0.

# HONORS & AWARDS

**Certificate of Appreciation**

* August 2003: “In Recognition of your outstanding achievement in support of the US Department of State Multi-Media Services”
* May 2002: “We value very sincerely your dedicated service.”

**Franklin Award**

* February 2002: “In recognition of your contributions to the success of the Chile Declassification Project”
* August 2000: “For dedicated performance that has led to improved customer relations.”

# REFERENCES

Available upon request