

# Douglas Champigny

## Software Engineer - Mission Solutions Engineering

Maple Shade, NJ - Email me on Indeed: [indeed.com/r/Douglas-Champigny/7c22f9e839561948](https://www.indeed.com/r/Douglas-Champigny/7c22f9e839561948)

I am currently working as a software engineer for the DoD as a permanent employee for Mission Solutions Engineering. I am looking to leave the government contracting business and seek opportunities in the private sector. I am looking for more career growth and advancement.

Willing to relocate to: Jersey City, NJ - Nyack, NY - Paramus, NJ

Authorized to work in the US for any employer

### WORK EXPERIENCE

#### Software Engineer

Mission Solutions Engineering - Moorestown, NJ - February 2015 to Present

08054

Details of projects and performance is limited due to the sensitive nature of the work in regard to national security.

Software Engineer serving a naval defense software system. Developing software for a weapons system in the area of Command and Decision. Project included being part of a development team specific to the area of the system for development and design. Designing, developing, and testing software for new functionalities, maintaining existing interfaces, and fixing current areas of concern. Working with system engineers to allocate appropriate design and development, and ensuring accuracy to the specs and requirements.

Developed unit tests procedures. Implemented test procedures to check functionality of code using CppUnit and GMock. Developing drivers and using dependency injection to isolate code and test the implementations of interfaces and classes.

Worked daily on programming change requests in various areas of the system. Designed and implemented changes based on new requirements from system engineers. Wrote code according to the specifications for accurate functionality and brought to a level two stage testing environment to assure quality and performance.

Implemented code based on OO methodology and uses of interfaces, classes and implementation files. Incorporated actuating and running makefiles to build executables to link into personal builds for testing new software development.

Worked daily with team members to evaluate problem solving. Discuss specific software requirements and details to develop proper implementation to produce correct functionality - ie. Interfaces, Classes, Methods, Inheritance. Used modeling and sequence diagrams to isolate areas of threading and software capabilities - building message packets and sending data to other areas of the system.

Successfully solved testing and software issues by use of logging and extraction points. Used data extraction tools to accurately find and fix issues in specific areas of the code.

#### Applications Programmer

Northrop Grumman/Computer Sciences Corporation - Mount Laurel, NJ - September 2011 to November 2014

08054

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Application Programmer serving a military software development project. Designed and implemented a multi-tiered layer system for a military software application, currently used by the U.S. Air Force. This application support project including being part of the development team, designing, developing, testing, and maintaining existing web services as well as other project interfaces. Implementing a new web client version of the software, using the latest technologies for web application development. Working with the requirements team which involved allocating the requirements to the appropriate designs, ensuring reuse to the maximum extent possible and ensuring the design is consistent with the domain analysis.

Developed and implemented very complex dynamic web pages and forms on a daily basis. Worked extensively with PHP classes, files, and database (SQL) language for the server side programming. Client side programming included JavaScript, HTML, AJAX, and CSS to create the dynamic web pages.

Processing data using an Oracle database for editing, updating, deleting, and retrieving data. Embedded XML formatting within the PHP code for processing on the server side and in some cases to be parsed on post back to the front end using JavaScript. Extensive use of AJAX to execute multiple calls to the server and re-process data for the front end based on user interaction.

Developed coding strategies that led to faster development time, more efficient and re-usable code, achieved expected outcomes and performance of the software. Created and utilized datasets to store data from a complex relational database (RDMS) to be used throughout the specific part of the application pertaining to the task at hand. Utilized the power of SQL to retrieve data with the use of proper table joins and clauses.

Ensuring proper software functionalities by working closely with the requirements team. Worked independently and as a team member to analyze and advise each other on code and development. Planning in advance and preparing for what each task entails by determining what functionalities from the previous software designs are needed for the current web client design.

Key projects and accomplishments:

Receive Employee of the Quarter from (CSC) Computer Sciences Corporation in April, 2013, for outstanding work and achievement.

Redesigned and developed the Air Refueling Event software system that was tested, implemented, and currently in use.

Designed and developed (ANG) Air National Guard software interfaces and system, tested, implemented and now in use.

### **Special Project Consultant**

Berkshire Community College - Pittsfield, MA - April 2010 to June 2011

01201

413-499-4660

System analysis and application design of learning management system (LMS) user interfaces to convert and re-use course elements initially developed with the Blackboard CE8 LMS for re-use in the Moodle 1.9 LMS. Analysis and development included re-designing the structure and content of each course utilizing the latest web development and design technologies (HTML, CSS, XHTML), as well as end-user processes and tools according to design specifications.

Converted the programs from one software system to another, to include unit testing changes and participating in acceptance testing. Worked with different types of customers (including internal technical and non-technical) to clarify the objectives of new system verse old system functionalities for different types of end users.

Assisted with training and support of end-user program designers. Successfully met timelines and job requirements for the project manager and internal customers.

### **Computer Lab Technician**

Berkshire Community College - Pittsfield, MA - September 2007 to June 2011

01201

413-499-4660

Utilized and maintained the Datatel Database Management System to promptly and efficiently update the web enhanced courses and the student rosters. Promptly solve various computers, help desk issues pertaining to the Learning Management Systems software requirements for different types of end-user customers.

Solved academic issues related to application functionalities (i.e. online quizzes, submitting assignments, posting discussions, etc.) between students and faculty as well as system access, such as browser and user authentication issues.

Worked as a professional tutor, solving academic issues pertaining to software development and design; knowledge in (i.e. C++, Java (J2SE), VB.NET, XHTML, PHP, CSS, and MySQL) was utilized in solving programming and debugging issues for software projects due for college level academics. Re-configure user's computers with proper software (i.e. Visual Studio, Apache HTTP Server 2.2, PHP 5.2.14, MySQL 5.1, Dev C ++, JDK, Net Beans, and JCreator to comply with college course requirements.

### **EDUCATION**

#### **B.S. in Computer Science**

Massachusetts College of Liberal Arts (University)

2011

#### **A.S. in Computer Science**

Berkshire Community College

2007

### **AWARDS**

#### **Employee of the Quarter**

April 2012

Awarded Employee of the Quarter from Computer Science Corporation for outstanding achievement.

## ADDITIONAL INFORMATION

### TECHNOLOGIES

Java, C++, PHP 5.5, JavaScript, Ajax, JQuery, Apache 2.4, IIS, HTML, XML, CSS, MySQL, Oracle, IIS, Zend 9.0, CVS, UNIX/LINUX, Rhapsody, CppUnit, GMOCK, ClearCase, Eclipse