

Antonio C. Silvestri
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Summary

Results-driven application developer with a history of building high-quality custom web and desktop applications. Excels in environments where high attention to detail is critical. Proven ability to work independently, understand complex business requirements, and consistently meet challenges with rapidly changing technological requirements. Holds Master's degrees in Computer Science and Electrical Engineering. Extensive programming experience in the fields of software engineering and web development.

Website

<https://bytecodeman.com/>

Technical Skills

- In-depth knowledge of the production of dynamic web content using web programming languages such as ASP.NET, Classic ASP, or PHP
- Database Management experience with SQL Server 2008 R2, 2012 & 2014, MySQL, MariaDB, Microsoft Access. Well versed in T-SQL, database design, indexing, and administration using tools that include Enterprise Manager, SSMS, Query Analyzer, SSIS, and DTS.
- Competence in React, Node.js, Express.js, MongoDB
- Extensive competence in web programming, logic, and web application design.
- Extensive competence in HTML5, CSS3, AMP pages, ES6 Javascript, jQuery, JSON, Web Services, AJAX, SOAP/XML
- Extensive experience with web authoring applications such as Dreamweaver or Microsoft Expression Web
- Working knowledge of the Microsoft Office Suite and Adobe Photoshop
- Effective verbal and written communication skills.
- Demonstrated ability to work independently on multiple assignments and to work collaboratively within a team when required.
- Programming Languages used and comfortable with include Java, C, C++, C#, ADO.Net, VB.NET, VB 6.0, VB Script, ASP Classic, ADO, COM, VBA, Perl, PHP, Python
- Version Control Tools used: Git and GitHub: <https://github.com/bytecodeman>
- Extensive use of the following IDEs: Visual Studio 2005 - 2019, Eclipse, IntelliJ, Visual Studio 6.0, Maven, Ant
- Managed and administers web servers: Microsoft IIS (5.0, 6.0, 7.0, 7.5, 8.0, 8.5) and Apache 2.2-2.4
- Working knowledge of WordPress, and the TerminalFour proprietary CMS.
- Programmed systems using Google API and PayPal API

- Operating Systems Used : Windows 95/98/NT/2000/XP/7/Vista/10, Window Server 2003, 2008 2012, Linux (including Ubuntu, Centos 7, Fedora)

Certifications

- MCSE on Windows Server 2003
- CCNA earn in 2009
- Sun Certified Programmer for the Java 2 Platform

Professional Experience

STCC Webmaster

Essential Duties and Responsibilities

- Design and develop dynamic web systems using web programming languages and database creation/management tools.
- Define web system requirements, programming specifications, and systems procedures in consultation with the Director of Marketing & Communications.
- Utilize languages/configurations used in support of a proprietary TerminalFour content management system (CMS).
- Maintain and enhance existing web pages and solutions.
- Manage existing web site content.
- Maintain graphics, templates, and style sheets for website visual presentations.
- Keep abreast of current and emerging internet standards, including web browsers, browser specifications, mobile and portable devices, social networking, and accessibility requirements.
- Interact with content providers to determine requirements and needs for web content modifications. Review materials produced to ensure that the design, production methods, and qualify conform to specifications outlined in the college web policy.
- Investigate new web technologies and applications and the ability to apply new internet technologies relevant for web site development.
- Interact professionally with a diverse group of faculty, staff, and web team.
- Provide an emergency management communications role in situations requiring special messages be posted on the website as needed.
- Participate in committees, working groups, councils, etc. in support of information technology initiatives.
- Utilize Search Engine Optimization (SEO) techniques to make sure pages are indexed at or near the top of search engine queries.

Contract Application Developer for STCC

Developed systems for STCC that use the technical skills outlined above. Projects include:

- **Bookstore Ordering System.** Faculty used it to order their textbooks online. Technologies used: HTML5, CSS3, jQuery, Ajax, SQL Server, ASP.NET. Source Code available on GitHub.
- **Complete Math Testing System.** The Math Department used it as the basis for evaluating student performance. Source Code available on Github. Much of the system is web based and includes:
 - Paper Test Generation System. The system generated a paper test that required a student to use a Scantron multiple choice answer sheet.
 - Test Correction System. A C# windows app that scans the answer sheet. The app reads data from a USB port, scores the exam, and records the result in a database.
 - Student Management System that maintain grade records for students. Comes complete with semester record archiving and complete CRUD facility.
 - Math Question Testbank System. An online authoring system that supports complete HTML based question entry based on CKEditor 4 and CKFinder 4 technologies. System produced textbook quality question generation.
- **Gmail Password Reset App.** An online app that makes it very easy to reset a student's password to their Gmail accounts. Uses the Google API. Source Code on GitHub
- **ESL and MGMESE online testing system.** English as a Second Language students are required to take this placement test. They need to also submit a writing sample. All info gets emailed to administrators with their essays attached. Their results are stored in a database and can be accessed through a complete CRUD manager. The MGMESE is the system used by the MGM Casino and tailored to meet their needs.
- **STCC Placement Testing System.** An extensive system of components was developed to support incoming students' requirement to take placement tests. A testing shell was developed to automate the delivery of the Accuplacer Placement Test. Without such a shell program, it would be very hard to manually administer testing. The system performs the following tasks:
 - Gathers a student's personal info and stores it into a local database
 - Asks a series of background questions used by Institutional Research for their reports. These background question responses are also stored in a local database.
 - Automatically logs into the Accuplacer website and loads their site with the already entered personal data. Tests are then presented to the student.
 - After completing the exams, their results are obtained and loaded into the local database.
 - A printout is generated that displays the student's results and provides course advising suggestions.

A Database Management System is also part of the Placement Testing System along with a component to upload testing results to the school's main Webadvisor system. The placement testing system was developed using ASP.NET and SQL Server technologies.

Web Developer and Server Maintainer for New England Archives Co.

- Developed a website where the companies' clients can look up their paper stored warehouse archives. SQL Server technology was used in the backend and include Free Text Searching capabilities where clients can look up their folder's info by describing a folder content.
- Installed and provides monthly maintenance of the Windows 2012 R2 and SQL Server 2014 server that this look up system is hosted on.
- This server all hosts an SFTP server that customers use to upload and download archival info that New England Archives processes. User creation and support is provided for this server.
- Wrote another CRUD database system for Yankee Rowe Nuclear Power plant information.

IT Director for Hampden County Food and Beverage

- Provides general server and Point of Sale Client support for their restaurants. Built their Remote Access system on a Windows Server 2012/SQL Server 2014 foundation. Provides general firewall maintenance on their router.
- Wrote Administrative scripts in PowerShell to update clients when a new version of the in house developed Point of Sale program is released.
- Scripts were written to shutdown clients at a specific time. The server wakes up the clients sending WOL packets.
- Provides general IT tasks whenever printers or POS systems just stop functioning.

Professor of Computer Science

- Teach programming courses in introductory programming, data structures and algorithms, and intermediate topics. All courses make use of Java.
- Maintain a WordPress website to support these courses. <https://cs.stcc.edu>
- Developed a site called "Special Apps" that students could use to complete their homework. Located here: <https://cs.stcc.edu/specialapps> PHP code drives a Bootstrap frontend for various apps. Source code is available on GitHub for these apps.