

**David Summer**  
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### **Summary**

Highly experienced educator and software developer. Deep technical background combined with exceptional communications and creative skills. Published author in the fields of education, music and technology.

### **Technical Skills**

HTML, CSS, XML, RSS, PHP, Perl, JavaScript, Ajax, Adobe Flash, ActionScript, Adobe Photoshop, Adobe Audition, Adobe Dreamweaver, Sony Movie Studio, Section 508 Compliance, Oracle, LAMP (Linux, Apache, MySQL, PHP/Perl), SEO, C++

### **Education**

Bachelor of Science in Computer Science, Cum Laude, Framingham State College  
Bachelor of Music in Education, University of Lowell

### **Certifications**

Instructional Technology, State of MA, Current  
Music Instrumental and Vocal, State of MA, Current

### **Employment Background in the Computer Field**

#### **Founder, David Summer Communications (2006 - Present)**

Provide web development and technical communications services to companies and individuals. Specializing in web application and website development, instructional materials, technical consulting, podcasting and other multi-media web development, [www.davidsummercommunications.com](http://www.davidsummercommunications.com).

Clients Include: IBM, 3Com Corporation, GlassHouse Technologies, Twin Coast Metrology, Energy Federation Incorporated.

#### **Senior Software Engineer, Soluris (1997 - 2006)**

Senior Software Engineer on an engineering team creating software for a Scanning Electron Microscope used in the semiconductor industry. This large-scale project consisted of over 500,000 lines of C++ code with additional Perl and VB components.

Responsible for everything from project leader to bug fixes for complex multi-person, 6-month projects. Refined requirements, designed the user interface, managed schedules, coded features, wrote automated tests and supported systems.

## **Software Engineer, GenRad** (Full Time, 1995 - 1997)

Software Engineer as part of a development team responsible for rewriting GenRad's board test software product for Windows NT. Responsibilities included producing ActiveX components in C++ with and without the MFC, extensive C++ programming and GUI development using Visual Basic.

## **Employment Background as Educator**

### **Current** (1993-Present)

Conduct Early Music Ensemble (2009-Present) at the Lawrence Academy, Groton MA. Create custom arrangements, produce recordings featuring the ensemble as well as recordings as a practice aid for students. Organize and produce ensemble and individual recording sessions for students.

Created and maintain a dedicated web page as a means of communication to students and parents as well as for sharing recorded material.

Continue to give private instrumental lessons in home studio.

### **Former** (1979-1993)

Music Teacher and Band Director for Marian High School in Framingham. Directed school band and jazz band, including performing for football games, school musicals, numerous concerts, open houses and graduation. Composed and arranged music specifically for the Marian Band. Initiated classes in Music Theatre and AP Music Theory, including creating curriculum and selecting materials for instruction.

Music Teacher, Chorus, Orchestra and Band Director for public schools in Natick, Holliston and in the state of Maine. Responsible for band, orchestra and jazz bands as well as vocal, instrumental and classroom music instruction.

## **Author**

Published author of several technical magazine articles including:

*Implementing Audio Captcha* published in *Dr. Dobb's Journal*. This article describes my method for implementing an audio CAPTCHA for a Section 508 compliant website.

*Shelling the Pod* published in for *Dr. Dobb's Journal*. This article explains my process for dynamically creating web pages used to convey information about podcast episodes.

*Recording a School Ensemble*, published in *The Instrumentalist* magazine. Exploring the basics of personal computer based recording as it pertains to recording a school music ensemble.

Also, several articles on music and technology, published in *Electronic Musician*, *Recording* magazines.

## **Educational Podcasts**

Creator of two Music Education podcasts available on iTunes and accessed by thousands of people each month. Perform all music as well as engineer, mix, describe and post the recordings to the Internet.