

Samit Vartak

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SOFTWARE DEVELOPMENT PROFILE

Solutions-oriented, technically sophisticated IT Professional with 20+ year's experience in software development using a variety of programming languages on different platforms and operating systems with the proven ability to apply technical knowledge and skills to the strategic benefit of the organization.

TECHNICAL SKILLS

Web Technologies	HTML/HTML5, CSS, JavaScript, PHP, ASP, JSP, ASP.NET, Servlets, XML, Ajax, VB.Net, C#, Java, JQuery, JSON, Bootstrap
Databases Used	MS-SQL, MySQL, MS Access
Web Servers	IIS, Apache
Virtualization	VMware vSphere, VMware vCenter, Oracle VM VirtualBox
Cloud Platforms	Azure
Backups	Veeam backup and recovery
Designing and Photo Editing	Dreamweaver, Photoshop, Articulate Storyline
Operating Systems	Windows, Red Hat Enterprise Linux
Other Software	MS-Office, Acrobat Professional, Audacity
Other Technologies	Responsive Design, Knowledge of SEO, Web Accessibility

EDUCATION

Master of Science, Computer Science George Mason University, Fairfax, VA, USA	Aug 2008
Bachelor of Engineering, Information Technology University of Mumbai, Mumbai, India	May 2003

WORK EXPERIENCE

Programmer (Administrative Faculty) Kellar Institute of Human disabilities, George Mason University, Fairfax, VA	April. 2011 - Present
<ul style="list-style-type: none">Designed and developed Service Data Entry project with ability to search, sort, filter data entries, generate reports with multiple filters, export data to excel and word using ASP.NET MVC, MSSQL.Implemented Google analytics 4 on CEHD and TTAC sites.Built a new ConnectWise Control server used to remotely assist users.Added BrowseAloud to websites to improve accessibility.Implemented Cookie Pro across all College of Education and Human Development (CEHD) websites.Added interactive module and quiz support on TTAC Online, VA-Leads-ECSE with the ability to track progress and provide certificates using ASP.NET MVC, MSSQL & xAPI.	

- Designed and developed TechKnowledgey conference website (<https://techknowledgey.ttaconline.org/>) with registration, evaluations, automated reporting and certificates that were emailed after evaluation using **ASP.NET MVC, MSSQL**
- Designed and developed AT Network(<https://atnetwork.ttaconline.org/>) & VTSS (<https://vtss.ttaconline.org/>) websites with ability to search relevant TTAC Online resources, events and online trainings using **ASP.NET MVC, MSSQL**.
- Designed and developed VA LEADS ECSE (<https://va-leads-ecse.org/>) using **ASP.NET MVC, MSSQL & Lucene.Net**. The primary purpose of the website is to provide resources and tools to enhance Local Education Agencies' collection, reporting, and analysis of Early Childhood Special Education Indicator data. Added the ability to display events and Online Trainings with certificate of completion.
- Created a grants system to keep track of all the files and information about previous grants using **ASP.NET MVC, MSSQL**.
- Redesigned and developed VAFamilySped (<https://vafamilysped.org/>) to using **ASP.NET MVC, MSSQL & Lucene.Net**. Added the ability to display events and Online Trainings with certificate of completion.
- Designed and developed TTACOnline (<https://ttaconline.org/>) using **ASP.NET MVC, MSSQL & Lucene.Net**. This website has been created to be a resource for professionals and family members of children and youth with disabilities. It offers a wide range of Resources, Events and Online Trainings with certificate of completion.
- Collaborated on development of AIM-VA portal which is used by teachers / DRM's in Virginia to order accessible instructional materials for qualified students. AIM-VA portal is designed in **ASP.NET MVC, MSSQL** with **responsive design**
- Design and developed EduTools4U (<https://edutools4u.gmu.edu/>) using **ASP.NET MVC** which includes user management features, course catalog, authors, faq's, payment gateway integration, course blog, rating system modules. Users interaction with modules designed in Articulate is also recorded.
- Instructor- taught Web Accessibility and Design - EDIT 426 5T1, Web Accessibility and Design - EDIT 526 5T1, Web Accessibility and Design - EDSE 526 5T1 – Spring 2012, Summer 2012, Fall 2012, Spring 2013, Fall 2013.
- EDIT 772, Web Based Instructional Tools – Spring 2011.
- Instructor- taught Introduction to Cricket - PHED 176 5P1 – Spring 2012
- Designed and developed Virtual Conference Center (VCC) using **ASP.NET MVC, MSSQL** to facilitate online conferences.
- Designed and developed Training and Technical Assistance Center's (TTAC) VAFamilySped (<http://vafamilysped.org/>) based on previously designed parents portal prototype using **ASP.NET MVC, MSSQL** and **T-SQL**. It includes user management features, resources searching based on disability and age level, bookmarking resources, reporting broken links, special education contacts based on county, Twitter and Facebook integration.
- Design and develop Virtual Collaboration Center (VCC) to facilitate online instruction and collaboration.
- Manage College of Education and Human Development (CEHD) university servers running **Linux, Apache, MySQL, PHP (LAMP)** to include backup, recovery, update and maintenance. Evaluate new applications prior to deployment. Monitor server network connectivity and usage.
- Develop websites as needed using **Flash ActionScript**.

Programmer

Kellar Institute of Human disabilities,
George Mason University, Fairfax, VA

Mar. 2009 – April 2011

- Designed and developed a Virtual Conference Center (<http://vcc.gmu.edu/>) for TTAC Online using **ASP** and **MSSQL**. The Virtual Conference Center is a real-time web-based conference room reservation system that keeps track of classroom and conference room reservations. Users may request specific rooms or a room can be suggested based on the hardware and software needed. User requests are saved as a profile to facilitate future room requests. Conflicts are reported to an administrator for resolution.
- Designed and developed a prototype for Parents Portal for the immersion program 2011 students using **ASP** and **MSSQL** and **T-SQL**. Parents can login to the website and bookmark the articles or share the articles they like on facebook or twitter.
- Developed **VB.Net** application that pulls course data from the CEHD Blackboard server to facilitate migration to the new university Blackboard system.
- Created a login interface using **PHP** and **MYSQL** to authenticate users with the university **LDAP** server to facilitate secure method of payment.
- Complied with section 508 standards.

Senior Technical Consultant

Aug. 2006 – Mar. 2009

College of Education and Human Development,
George Mason University, Fairfax, VA

- Implemented and maintains a comprehensive data base driven website for the College of Education and Human Development (CEHD) (<http://cehd.gmu.edu>) using **MySQL**, **PHP**, **XHTML**, **Ajax** and **MODx** open source Content Management System (CMS). This project included a public website and intranet. The database tracks and links people (including contact info, roles, titles, affiliations, etc.), courses (including semester-specific variations), locations (buildings, rooms, campuses, etc.), academic entities (departments, programs, degrees, certificates, etc.), application requirements, and other related information.
- **Led a team** of four programmers.
- Responsible for **troubleshooting**, updating and testing of over 100 PHP snippets and 12,000 webpages.
- Developed the online Field Experience Request Form, <http://cehd.gmu.edu/endorse/ferf> using **HTML**, **PHP**, **MySQL** and **Ajax**. This form automated a paper process and is used by hundreds of students seeking internships each semester.
- Manage CEHD university servers running **Linux**, **Apache**, **MySQL**, **PHP** (LAMP). Responsible for backup, recovery, update and maintenance. Evaluate new applications prior to deployment. Monitor server network connectivity and usage.
- Provide recommendations for hardware and software purchases, upgrade, migration and deployment.
- Designed and developed conference websites using **HTML**, **CSS**, **ASP**, **Access**, **MySQL**, **PHP**, **Dreamweaver Templates** that include registration, email confirmations, administrative interfaces for tracking attendees and payments.
 - Conference on Protection websites of Unaccompanied and Separated Children: <http://childalone.gmu.edu/> Joint venture of **U.S. Department of State** and **GMU**
 - Make the Message Matter: Sponsored by **College of Education and Human Development (GMU)**

- Authored a plugin currently featured on the MODx site (<http://modx.com/extras/package/pagetocgenerator>) which generates a page-specific Table of Contents based on the page's heading structure in **PHP**.
- Provide web programming training as needed to faculty and staff.

Software Engineer

June 2003 – June 2006

Convonix Inc., Mumbai, India.

- Pioneered the creation of Hitstatz **web analytic software** tool for **search engine optimization**. Hitstatz is a hosted solution developed in **ASP** and **MS-SQL** that runs in any client environment. The software captures statistics of visitors, page views, and referrers and generates statistical analysis on the trends and effectiveness of web marketing campaigns.
- Created **Campaign Management System (CMS)** using **ASP, VB.Net** and **MS-SQL**. The CMS is designed to track, analyze and provide rankings on various Search Engines to clients on the success and impact of their direct marketing campaign on various search engines.
- Worked with the Partner to build the software development team of 3 and managed them to the success of Hitstatz.
- Responsible for the redesign of numerous W3C compliant corporate websites within the native customer environment to include Content Management Systems.
- Responsible for making various search optimization related changes to client websites.
- Responsible for giving seminars on "Introduction to HTML" as a part of training for newly hired employees.

ACADEMIC PROJECTS

George Mason University

- **Blog Application:** Developed a Blog application as a part of curriculum using **Servlets, JSP** and **JavaScript**.
- Fault tolerant Distributed Coordination System developed in **JAVA** using a ring based algorithm. A single token is passed among the nodes to detect faults. The system detects and recovers from the fault.
- Digit Recognition in a coin image using **Matlab**.

University of Mumbai

- Developed a comprehensive online communication system for VAIDS Technologies Pvt. Ltd. using **ASP** and **MS-SQL** featuring a web-based email system with fill in, preformatted forms for staff to submit and track requests. Programming elements included newsletter creation and distribution as well as an easy to use administrative interface for updating users, forms and workflow.

REFERENCES

References available upon request