

SIDDHARTH DALAL

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UVA Procurement Services
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Computer Science Engineer looking for a full time position in technology and software system design, development and/or research.

Experience	Procurement Services, University of Virginia Web Application Developer/IT Specialist	Charlottesville, VA Feb 2007–Present
	<ul style="list-style-type: none">☞ Develop database driven (PHP/Ruby with Oracle/MySQL) web applications to manage and implement procurement procedures at the University.☞ Redesigned the online vendor registration process and the surplus property system at the University (http://www.procurement.virginia.edu/surplus/). Currently working on redesigning the wire transfer process at the University.☞ Provide backup tech support to users within Procurement and help maintain the Procurement website	
	Home Guardian LLC Consultant	Charlottesville, VA Jan 2008–Present
	<ul style="list-style-type: none">☞ Design and maintain web applications, databases and a client application in Visual Basic.NET 2003 that runs on Windows XP and Windows XP embedded for data collection and reporting.☞ This company is a recently funded startup based on some of the research done at MARC and I am one of the founders.	
	Hypogen, Inc. Consultant	Charlottesville, VA Mar 2006–Sep 2007
	<ul style="list-style-type: none">☞ Design and maintain websites, databases and web based applications for several local startup companies in Virginia and one non-profit (MedicalAutomation.org) including conference management related websites.	
	Medical Automation Research Center (MARC), University of Virginia Senior Software Engineer	Charlottesville, VA Jul 2002–Jan 2007
	<ul style="list-style-type: none">☞ Single handedly developed both the client side software and web services component of the MARC Smarthouse Technologies (https://smarthouse.med.virginia.edu/). Developed algorithms to identify activities of daily living from sensor data from the Smarthouse system. Maintain web and database servers for the smarthouse project, several other projects.☞ Develop Handheld (Palm and PocketPC) applications for Clinical Applications.☞ Write grants and technical papers. Developed and maintain the MARC website (http://marc.med.virginia.edu/).	
	The Internet Book Database Founder	Charlottesville, VA Aug 2005–Present
	<ul style="list-style-type: none">☞ Single handedly created, designed and run The Internet Book Database (http://www.ibookdb.net/), one of the largest online book databases according to Wikipedia.	
	Computer Science Dept, University of Virginia Research/Teaching Assistant	Charlottesville, VA Aug 2000–Jul 2002
	<ul style="list-style-type: none">☞ Research: Member of the Graphics Group (http://www.cs.virginia.edu/~gfx). Worked on simplification of physical simulation using Neural Networks and Principal Components Analysis. Involved computer graphics, mathematics, C/C++ and Matlab programming☞ Teaching Duties: Conducted labs, held office hours/ problem solving sessions and trained undergrad TAs for several courses.	
Professional	<ul style="list-style-type: none">☞ Software product design and development – through entire development cycle	

Skills	<ul style="list-style-type: none"> ☞ Secure online standards compliant dynamic data driven website development ☞ Healthcare/clinical software development including software for handhelds (Palm, PocketPC, tablets) ☞ Familiar with research and grant process, grant writing, technical paper and presentation writing ☞ Fast learner with excellent interpersonal, teamwork and communication skills 												
Technical Skills	<ul style="list-style-type: none"> ☞ Programming Languages: Visual Basic.NET (including for Embedded Apps), C/C++, some Java, HB++ (PalmOS) ☞ Operating Systems: Windows 3.1/9x/Me/NT/2000/XP/XP Embedded, Unix/Linux/Solaris/Irix ☞ Web Development: HTML, JavaScript, VBScript, FrontPage, Dreamweaver, Web Server (Apache configuration and management, PHP, Ruby, some ASP) ☞ Database Systems: SQL Server (MCP), MySQL, Sybase, Oracle, MS Access ☞ Tools and Others: Matlab, PhotoShop, Crystal Reports, Codewarrior (PalmOS), Zigbee 												
Education	<table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 20%;">2000–2002</td> <td style="width: 60%;">University of Virginia</td> <td style="width: 20%;">Charlottesville, VA</td> </tr> <tr> <td>☞</td> <td colspan="2">M.S., Computer Science. GPA: 3.66</td> </tr> <tr> <td>1996–2000</td> <td>D. J. Sanghvi College of Engineering, Univ. of Bombay</td> <td>Bombay, India</td> </tr> <tr> <td>☞</td> <td colspan="2">B.E., Electronics Eng. First Class with Distinction. 5/80 in class, 41/ approx. 5000 at University</td> </tr> </tbody> </table>	2000–2002	University of Virginia	Charlottesville, VA	☞	M.S., Computer Science. GPA: 3.66		1996–2000	D. J. Sanghvi College of Engineering, Univ. of Bombay	Bombay, India	☞	B.E., Electronics Eng. First Class with Distinction. 5/80 in class, 41/ approx. 5000 at University	
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Patent	☞ Method to analyze human gait from floor vibrations. Patent pending												
Clinical Research Training	<ul style="list-style-type: none"> ☞ Completed the UVA Human Investigation Committee's Training for Medical Investigators and Clinical Research Coordinators (Protection of Human Subjects) ☞ Completed the NIH Training in Human Subject Protection and Regulatory Compliance ☞ HIPAA (Health Insurance Portability and Accountability Act) and Confidentiality Training 												
Selected Publications	<ul style="list-style-type: none"> ☞ Impact of Passive Health Status Monitoring to Care Providers and Payers in Assisted Living. Accepted for publication. Journal of Telemedicine and E-Health. ☞ Impact of Monitoring Technology in Assisted Living: Outcome Pilot. IEEE Transactions on Information Technology in Biomedicine. Jan 2006 ☞ Validation of Rule-Based Inference of Selected Independent ADLs. Journal of Telemedicine and E-Health. Oct 2005 ☞ A Rule-Based Approach to Analyzing Elder' Activity Data: Detection of Health and Emergency Conditions. AAAI 2005 Fall Symposium on Caring Machines: AI in Eldercare. ☞ In-Home Monitoring System and Objective ADL Assessment: Validation Study. International Conference on Independence, Aging and Disability, 2003 ☞ ROP: A Resource Oriented Protocol for Heterogeneous Sensor Networks, 2003 Virginia Tech Symposium on Wireless Personal Communications ☞ Derivation of Basic Human Gait Characteristics from Floor Vibrations, 2003 Summer Bioengineering Conference 												
Awards and Activities	<ul style="list-style-type: none"> ☞ Computer Science Department, University of Virginia Fellowship ☞ IEEE member since 1997, Computer Society member since 2000, EMBS member since 2005 ☞ Won various intercollegiate (IEEE and college organized) and national honors/awards. Organizer/Technical committee member of IEEE activities at University of Bombay, webmaster for the college IEEE chapter 												
Interests	<ul style="list-style-type: none"> ☞ Professional: Web Development, Database design, Web Applications ☞ Personal: Traveling, Books – Mysteries and Thrillers, Movies – Comedies and Thrillers, Blogging, Photography 												