

SARTHAK SANJAY SHETH

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EDUCATIONAL QUALIFICATIONS:

- **George Mason University, Fairfax, VA**
 - Master of Science in Computer Science.*Current GPA (3.5/4)*
Expected Graduation: May 2017
- **University of Pune, India**
 - Bachelor in Information Technology.*Graduated: May-2015*
Grade: First Class

TECHNICAL SKILLS:

- **Programming Languages:** Java, C, C++, HTML, HTML5, PHP, and Python, Ajax.
- **Scripting languages:** JavaScript, JSP, CSS3, and XML.
- **Frameworks:** AngularJS, jQuery.
- **Database:** Microsoft SQL Server 2000/05/08, Oracle 10g/9i: SQL, MySQL PL/SQL, Hadoop and MS Access.
- **Operating System:** Windows, Mac, UNIX.
- **Tools:** Eclipse, NetBeans, Dreamweaver, Git, Slack, Visual Studios 2008, WordPress.
- **Concepts:** Data Structures, Algorithms, Databases and Networking.

WORK EXPERIENCE:

- **Graduate Teaching Assistant, George mason University, VA** (August 2016- Present)
 - Assisting professor Irene Bruno in course "Discrete Structures".
 - Teaching and helping undergraduate students with their course work.
 - Important topics are: Python Programming, Boolean algebra, Set theory, Probability.
- **Programming Intern, Axle Informatics, MD** (May 2016 – August 2016)
 - Worked as an application developer for an open source application named "LabShare" developed by National Institute of Health (NIAID).
 - Developed a module called VoISlicer which provides interactive visualization of 3D image data.
 - Technologies Used: JavaScript, HTML5, CSS3, AngularJS, WebGL, Node.JS.

ACADEMIC PROJECTS:

- **Web controlled Robot for Surveillance**
 - Developed a robot which can be operated from remote place using internet and the robot can be used for Surveillance.
 - Authenticated user can move the robot and see live streaming using web page.
 - Used Arduino microprocessor to build the robot and created a Web page using HTML and JavaScript.**(Technologies Used: Java, JavaScript, HTML, PHP, Arduino processor)**
- **University course Website**
 - Currently working on a course website in "Software Engineering for WWW" course.
 - Focusing on Client and Server side software design and development.**(Technologies Using: HTML5, CSS3, JavaScript, Ajax, jQuery, Servlets, JSP, MVC architecture, JDBC, JSON)**
- **Secure Software Programming Project**
 - Developed a secure software programming Game "Who Wants to be a Millionaire" using JSP, servlets and HTML, CSS.
 - Hosted a multiplayer game on localhost in which more than one person can participate and play.
 - Implemented Security features like input validation, SSL/TLS, fault tolerance, SQL injection, salted hashes for password, buffer overflow.**(Technology Used: JSP, Servlets, HTML, CSS, Oracle10g, Apache-Tomcat 8)**
- **The Longest Almost-Increasing Subsequence**
 - Developed a system which takes a sequence of any length and outputs the longest almost increasing subsequence (LAIS) using Java for the graduate level course "Analysis of Algorithms".
 - Computed time complexity of this algorithm using counters.**(Technologies Used: Java and Eclipse IDE)**
- **Payroll management System**
 - Designed a standard way to visualize the design of a payroll management system using Unified Modeling Language (UML)
 - Developed a Visual Basic project using Oracle Database as backend.**(Technologies Used: UML 2.0, MS Access, VB 6, Oracle 10g)**