

Gati Shah

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Experience

Android/ Web Application's Developer Jr at NCSU TurfGrass (Sep 2014 – Present)

- Developed Android applications for Turf users, helping them in coping up with natural calamities.
- Handled and managed updates on site in an Agile Development Environment.
- Refurbished old TurfGrass site to render it in HTML 5 and C# (MVC architecture, ASP. Net).
- Worked on a Photo Repository module to incorporate a backbone for Turffiles.

Digital Media Assistant at D. H. Hill Library, NCSU (Aug 2013 – Jan 2014)

- Provided service to patrons for converting or editing any form of digital media and also conducted technical consultations to help them get started with any development tool/software or any coding language.

Software Developer at Persistent Systems Ltd. (Jan 2013 – Jul 2013)

- Developed multiple applications to gain experience working with C# language, .NET framework, LINQ, XML and RDL.
- Redesigned the application (Report Template Editor) to include a new property page for the custom formatting of the templates.
- Suggested and implemented innovative ideas to achieve a functionality and also provided support in case of bugs or errors detected while testing.

Software Intern at Loop Mobile (Jun 2010 – Aug 2010)

- Developed skills in Cloud Computing (Infrastructure as Service (IaaS), Platform as Service (PaaS), System as services (SaaS)) and 3G data services.

Software Intern at Reliance Communication (Jun 2009 – Aug 2009)

- Participated in extensive product training, documenting Business Process using UML tool, Process level Exception Handling, interface designing and data extraction & Processing.

Education

Master in Computer Science, North Carolina State University – GPA: 3.2 (Aug 2013 – Dec 2014)

- **Graduate Coursework:** Data Learning & Analysis, Design & Analysis of Algorithms, Database Systems, Software Engineering, Object oriented languages, Wireless Networking, Visual Interface for Mobile Devices, Artificial Intelligence, Network Designing & Management and Internet Protocols.

Bachelor in Computer Engineering, St. Francis Institute of Technology – GPA: 3.6 (Jun 2008 – Jun 2012)

- **Undergraduate Coursework:** Operating Systems, Database design, Computer Architecture, Computer Networks, Programming languages, Data-structures & Algorithms, Compiler design and Discrete Math & Computation Theory.

Skills

- **Programming Languages:** C, C++, C#, Java, SQL, XML, Ruby, JavaScript
- **Web:** HTML 5, CSS, PHP, XML Schema, JavaScript libraries (Bootstrap, d3, nvD3, angular, knockout, node), Bower and Grunt.
- **Servers:** Apache Tomcat, Microsoft SQL Server
- **Software applications:** Eclipse, Visual Studio, Dreamweaver, JCreator, MATLAB, UML, Rational ROSE, Rational Clear, R, Microsoft Project, Bugzilla, VersionOne, XCode, Github, OPNET, Wireshark.
- Familiar with **Software engineering process models** and **Design patterns**.

Projects

- **Content Based Image Retrieval system:** Implemented as a general-purpose library to extract edge and layer data of a given picture from a large database using **MATLAB** and communicated with the database server over web for matching.
- **Pedestrian Detection and Counting Algorithm:** Implemented to explore applicability of high-speed graphics card hardware for real time scale invariant feature detection and matching historical stored patterns using **CUDA** programming language.
- **Online Library Management system:** Process Automation system implemented Student registration, Books inventory management, Lending process management using **HTML, CSS, Java Script, Microsoft SQL Server, Servlets, MYSQL, RDBMS** and **Java** concepts.
- **StockMan:** Developed a game involving competition amongst friends using **Android SDK, Facebook APIs, MYSQL, and CodeIgniter**.
- **Vehicle to vehicle communication System:** Stimulated a network to find the speed (or delay) of "help" message dissemination in a Vehicle-to-Vehicle network in a real city using **SUMO** and **OMNET++**.
- **DireWolf Jobportal:** Created **SaaS application in Ruby on Rails** that enabled job seekers to look for jobs and employers to find suitable candidates.
- **Reasonable Care Management System:** Implemented an interface for students, doctors and nurses to schedule and receive medical care using **MYSQL, RDBMS** and **Java** concepts.
- **Peer File Sharing System:** Developed a peer-to-peer file transfer system in **Java and C#**, which synchronizes between peers and transfer files efficiently.
- **Bookstore Management System:** Designed and implemented a database management system for a chain of bookstores to help manage sale and inventory. Designed tables in **Oracle database** using **ER Diagram and Use Cases**.
- **Concentration Game Analysis:** Based on the events that are logged, as a player plays the Concentration game, we extracted knowledge about the player's characteristics through this project using **R**.