

Arpit Shah

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EDUCATION

Syracuse University, College of Engineering & Computer Science, Syracuse, NY

Expected Graduation: **May 2018**

Master of Science, Computer Engineering

GPA: 3.89/4.00

Relevant Coursework: Advanced Data Structure & Algorithm, Software modelling & Analysis, Object Oriented Designing, Software Engineering, Database Management System, Android Programming, Design Patterns, Artificial Neural Network

L. D. College of Engineering, Gujarat, India

July 2015

Bachelor of Engineering, Electronics & Communications

GPA: 3.93/4.00

TECHNICAL SKILLS AND INTERESTS

Programming Skills: Java, C++, C#, Python, Shell scripting

Web Technologies: HTML5, CSS, JavaScript, AJAX, PHP, Node.js

Databases & Frameworks: Tools: MySQL, Mongo DB, Apache Kafka, Maven, Spring MVC, Hibernate, Jersey, Spring boot, Hadoop

Other: SVN tortoise, Git, Jira, Confluence, Team Foundation Server

EXPERIENCE

Software Developer Co-op, *The Davey Tree Expert Company*, Syracuse, New York, US

Aug 2017 - Present

- Developed an application using C++ to simulate the effects of changes in tree covers and impervious surfaces on hydrological cycle. Wrote MapReduce jobs in Java using Hadoop to process simulation output data
- Analyzed performance and logical issues with application and resolving those issues by debugging and using system logs

Research Assistant, *Syracuse University*, New York, US

May 2017 - Aug 2017

- Designed and developed Android application to collect user's behavior with demographic data and other affecting factors to provide them accurate recommendations regarding their upcoming conference events

Software Engineer, *Cybage Software Pvt Ltd*, Gandhinagar, India

Jul 2015 - Aug 2016

- As a part of Agile Development team, developed SharePoint data migration Application based on SharePoint Object Model using C#.NET framework. It is used to migrate SharePoint website data between different SharePoint versions
- Developed fully featured book selling website with server-side using ASP.NET MVC framework and database stored in MSSQL. Extensively used HTML, CSS, JavaScript, AJAX technologies to improvise client side user experience
- Efficiently worked in all phases of SDLC including requirement gathering, design, implementation, testing and documentation

Engineering Intern, *Bharat Sanchar Nigam Limited (BSNL)*, Ahmedabad, India

Jul 2014 - Dec 2014

- Developed a telecom equipment failure detection system using state change detection in Arduino which gets logged in MySQL
- Created Android application which receives notifications on equipment failure with detailed information about failed system

PROJECTS

Home Inspection Service Web Application (Node JS, MVC framework, HTML5, MongoDB, OpenShift)

Current

- Developing website to provide platform where user can request professional home inspection before leasing/buying home
- Modeled on Uber and on-demand hiring, interested person can register on website, be trained for inspection, receive notification of inspection requests, and respond and to be paid accordingly

Billing services using Kafka (Java, JDBC, Protocol Buffers, Kafka, Amazon AWS EC2)

Jul 2017

- Designed a publisher-subscriber based messaging system for simulating transaction process of a billing service using Java & Apache Kafka. Deployed it on cluster of AWS EC2 instances to simulate the real-world transaction scenarios and evaluated the performance.

Cloud Database Web API Service (Java, JAX-RS, JSON, JavaScript, HTML5, Apache Tomcat, Servlet)

Jun 2017

- Developed NoSQL database and implemented its query engine to support all database queries
- Implemented indexing using BST for optimizing query operations and provided data persistent
- Provided it as REST web API service and extended it to website to manage on-server databases and its authorization on UI.

Travel Buddy: Android Application (Java, Node.js, JSON, MongoDB, Amazon AWS EC2, Android)

Mar 2017

- Built an application that provides nearest tourist attractions information based on user location; locational weather update using weather API; voice language translator using Google API; users inter-messaging service, diary entry, other features.

Dependency-Based Remote Code Publisher (C++/CLI, HTML5, CSS, JavaScript, Socket, XML)

Apr 2017

- Developed client-server application to publish source code files as web pages embedding its dependent file's links on server
- It generates dependency and strong component analysis asynchronously for each published file on server side
- Supported P2P HTTP style message communication and file transfer using sockets and client user interface using WPF

Software Collaboration Federation (C#, WCF, WPF, XML)

Dec 2016

- Prepared Operational Concept Document, discussing architectural ideas for project and implemented it in C#.NET framework
- Provided code check-in/check-out facilities in Repository server which does integration testing using Test Harness for each check-in
- All the remote communication between clients-servers are implemented using WCF and GUI using WPF