
EDUCATION

Syracuse University, Syracuse, NY

Dec 2019

- Master of Science in Computer Science (Awarded merit scholarship) GPA: 3.53/4.0(in major)
- Coursework: Design and Analysis of Algorithms, Software Modeling and Analysis, Operating Systems

National Institute of Technology, Surat, Gujarat, India

Jul 2013

- Bachelor of Technology in Computer Engineering GPA: 7.78/10.0
- Coursework: Data Structures, Database Management Systems, UNIX Programming, Network and System Security

PROJECTS

Remote Package Dependency Analysis (C#, WPF, WCF, VS2017, Windows)

- Developed a code analysis tool using C#, that performs code metrics based on LOC and Cyclomatic complexity
- Performed Type analysis, Dependency analysis & Strong Component analysis using .Net
- Created a WPF client using C# & a remote server using WCF capable of handling multiple clients

Tiny NoSQL Datastore (C++, HTTP, HTML, VS2019, Windows/Linux)

- Developed a lightweight, high performance NoSQL repository in C++ using key/value in-memory storage for performance and XML for data persistence that supports client access to the repository for Windows & Linux
- The communication channel used HTTP requests handled through a messaging channel on server for load-balancing

Unix-style Log structured file system (C++, Threads, VSCode, Linux)

- Designed a new extensible file system on Nachos using C++ with indirect blocks which buffers writes together into a segment to decrease writes using Inode map
- Also added synchronization support to allow multiple threads to access files based on locks to improve performance

Analysis on Indian Elections (Python, WPF, MySQL, Tweepy, Twitter, Kibana, Windows)

- Performed mining on tweets using Tweepy APIs and trained multiple models - Bernoulli Naive Bayes, Linear SVC, Logistic Regression for sentiment analysis
- Generated a data store using MySQL and Elasticsearch. Visualization of plots was built on Kibana and Tableau

EXPERIENCE

Test Analyst, ValueLabs Inc. Houtson TX

Feb 2020 – March 2020

- Leading the quality assurance team with handing test automation for continuous integration and deployment on Team Foundation Server using scripts with Fiddler dumps

Application Developer, IBM India Pvt. Ltd.

Nov 2014 – Dec 2017

- Developed NodeJS web app for new ICD10 patient health data aggregation for PHI compliant data maintenance
- Developed customer portal to view health history and improved claims processing by 100%
- Developed Java apps to interact with claims on client's customer bill and subscription notification. Reduced paper notifications and cost by 20%

Associate System Engineer, IBM India Pvt. Ltd.

Nov 2013 - Nov 2014

- Developed and maintained programs for US Healthcare company. Improved existing claims, membership handling and updating new features to the legacy system meeting SLA target of above 95%
- Mentored 10 new team members on Watson Cognitive systems saving over 60 person-hours
- Lead the effort towards transformation from legacy Waterfall SDLC to Agile model through using Jira

SKILLS

Programming Languages: Python, C, C++, C#, Java, PL/SQL, Bash Script

Databases: MySQL, SQL Server, Oracle, MongoDB

Web technologies: HTML5, CSS, XML, JavaScript, NodeJS, npm

Technologies: Eclipse, Visual Studio, Amazon Web Services, Google Cloud Platform, Jira, Git, Jupyter, Tableau

Certifications: Certified Scrum Master, IBM Bluemix Essentials, Big Data Fundamentals