

SUVADEEP CHAUDHURI

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EDUCATION

Master of Science in Computer Science

University of Florida, Gainesville, FL

May 2018

[GPA: 3.34/4.0*]

Bachelor of Engineering in Computer Science

University of Pune, Pune, MH, India

May 2012

First Class

SKILLS

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

Scripting Languages: VBScript, Windows Batch Scripting, PowerShell Scripting

Web Technologies/Protocols: JavaScript, HTML5, CSS, JSP, Servlet, RESTful, HTTP, TCP/IP, UDP, Socket programming.

Tools and Operating Systems: Git, Eclipse, Linux, Windows, XINU

Products and Databases : AWS S3, Cloudfront, Lambda, EC2, Oracle Hyperion Suite, Oracle Database 11g, MySQL

WORK EXPERIENCE

Systems Application Developer Intern – Gallup, Omaha, NE

May 2017 – August 2017

- Designed a signed URL generator module using AWS Cloudfront, S3 and JAVA. Wrote Unit tests using JUnit and Mockito.
- Wrote middleware application code that parsed hierarchical JSON data from the data layer, design POJOs to be supplied to Handlebars/Mustache templates to populate the UI side for the analysis and reporting web-application.
- Created RESTful web-services using JAX-RS that would deposit files onto REDIS cache and AWS S3 buckets. Extensively used Java8 features like Lambda Expressions, Streams API, JAVA-Optionals in code. Worked with design patterns like Facade, Factory.
- Implemented Dependency Injection for modules. Utilized JAVA Futures for asynchronous processing of jobs.

Software Engineer - Accenture Services Pvt. Ltd., Chennai, India

January 2013 – July 2016

- Developed and managed Oracle Hyperion Financial Management (HFM) applications and reports for large Pharma clients.
- Managed data in multi-dimensional (Essbase), relational databases (Oracle DB) and HFM suite at the company consolidation level.
- Conducted and handled international client meetings and mentored associate software engineers in projects.

Intern - Blue Shores Solutions Pvt. Ltd., Pune, India

October 2011 – June 2012

- Developed a widget based Android Application: Voice recognition in ambient noise.

KEY TECHNICAL PROJECTS

Petri net simulation (University of Florida)

January 2018-February 2018

- Implementing an application to simulate the behavior of a Petri net model of computation.

Analysis Engine for detection of Anti-microbial resistance Genes (University of Florida)

September 2017-December 2017

- Implemented succinct de-Bruijn graphs in JAVA to detect AMR genes in long String input sequence reads.
- Resources Used / Skills Gained:** [Burrows-Wheeler transform, data compaction, Succinct data structures, de-Bruijn graphs]

Programming language and Compiler Design (University of Florida)

September 2017- December 2017

- Implemented a compact programming language and compiler with support for arithmetic operations, logical operators, loops, conditions, expressions, a few image manipulations in Java.

P2P File Sharing software-Bit Torrent Simulator (University of Florida)

January 2017-April 2017

- Implemented a multithreaded P2P software as per described protocols to share files over a network.
- Resources Used / Skills Gained:** [Java, Computer Networking Concepts]

Internet of Things (IOT) – Smart devices using XINU (University of Florida)

September 2016 – December 2016

- Designed Device drivers for sensors and actuators in XINU OS. Implemented Cloud-Edge-Beneath model of IOT implementation to trigger devices based on the sensor data. Created an interactive web-interface for client via the cloud node.
- Resources Used / Skills Gained:** [C, XINU OS, Java Servlet, Tomcat server, CEB IOT model, jQuery, Bootstrap, HTML, CSS]

Max-Fibonacci heap as Hashtag Counter (University of Florida)

September 2016 – December 2016

- Designed an application to simulate the count of most occurring Hashtags in social media using a max-Fibonacci heap.
- Resources Used / Skills Gained:** [Java, Advanced Data Structures]

.Net Based Journal Entry Module (Accenture)

January 2016 – March 2016

- Designed enhancements for the web based Journal Entry (JE) to create a robust report generator and check-layer that incorporated complex verification logic as per business rules. Optimized server space requirements by implementing redundancy checks.
- Resources Used / Skills Gained:** [JavaScript, CSS, HTML, C# .Net, PL/SQL]

Maintenance and Migration application (Accenture)

July 2015 – November 2015

- Developed a Java UI application that performed data and metadata maintenance for applications in the Oracle Hyperion Suite.
- The application resolved all the server/environment dependencies on the fly in and reduced down time by 50%.
- Resources Used / Skills Gained:** [Java, AWT, Spring, FDM VB-API, Shared Services and Essbase-Java API, MDX, SQL]

Access and Security Portal (Agile Project) (Accenture)

December 2013 – April 2014

- Designed and developed backend interface between staging and application in an Agile team that developed a multi-tier Web-app in 20 weeks. The service, on deployment enabled ~5000 users log in and request access to various applications within the HFM suite.
- Resources Used / Skills Gained:** [Java, Oracle DB, Hyperion APIs, SQL, PL/SQL, PowerShell, BAT, Jython, ODI]