SUVADEEP CHAUDHURI

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EDUCATION

Master of Science in Computer Science *May 2018*
University of Florida, Gainesville, FL
Bachelor of Engineering in Computer Science *May 2012*
University of Pune, Pune, MH, India

SKILLS

Languages: Java, JavaScript, C, C#, PL/SQL, VBScript, Python, R   **Web Technologies:** EmberJS, React, D3, HTML, CSS, REST
Environments: IntelliJ, VSCode, Mac, Linux, Windows
Products and Databases: Jira, AWS S3, Cloudfront, Dynamo, Lambda, EC2, MySQL, Oracle DB, Oracle Hyperion

WORK EXPERIENCE

Gallup *(Systems Application Developer - Omaha, NE)* *May 2018 – Present*
- o <u>Organizational Analytics</u>: Led the effort to design a data intensive web-app frontend microservice and business logic layers using AWS services. Worked with multiple data structures to transform data models for various intricate data visualizations (using D3 and Highcharts with EmberJS) representing multi-dimensional and hierarchical data.
- o <u>Advanced Exports</u>: Created a RESTful web-app frontend, business layer and integrated an asynchronous export pipeline to create multidimensional data dashboards and trigger large data exports.

Gallup *(Systems Application Developer Intern - Omaha, NE)* *May 2017 – August 2017*
- o Wrote middleware application code and transformed data as per models for web-application.
- o Created RESTful web-services using Jersey and AWS services - S3, Cloudfront, DynamoDB and Lambda.
- o Implemented Dependency Injection for modules. Utilized Java Futures for asynchronous processing of batch jobs.

Accenture *(Software Engineer - India)* *January 2013 – July 2016*
- o Developed and managed Oracle Hyperion Financial Management (HFM) applications and reports for large Pharma clients.
- o Managed data in multi-dimensional (Essbase), relational databases (Oracle DB) and HFM suite at the company consolidation level.
- o Conducted and handled international client meetings and mentored associate software engineers in projects.

Blueshores *(Software Development Intern - India)* *October 2011 – June 2012*
- o Developed a widget-based Android Application using Java and C - Voice recognition in ambient noise.

PROJECTS

Advanced Data Tool *December 2018*
- o Implemented online multidimensional data analysis feature and exports for selected layouts in OLAP web-app. Worked on efficiently rendering thousands of rows on screen with paginated options.
- o Worked with queuing export requests, collecting data and metadata from multiple sources, formatting data to create excel and csv exports. Tracking process status, creating export files in S3 with signed links available for download over the UI.
  [Java, Javascript]

Analysis Engine for detection of Anti-microbial resistance Genes *(University of Florida)* *December 2017*
- o Implemented succinct de-Bruijn graphs in JAVA to detect AMR genes in long String input sequence reads.
  [Burrows-Wheeler transform, data compaction, Succinct data structures, de-Bruijn graphs]

Trending Hashtag Counter *(University of Florida)* *December 2016*
- o Implemented a hashtag counter service using a Max-Fibonacci heap, to count the most occurring hashtags on social media. Simulated Social media data stream to get the list of posts to be analyzed. **[Java, Advanced Data Structures]**

P2P File Sharing software *(University of Florida)* *April 2017*
- o Implemented a multithreaded P2P software as per described protocols to share files over a network.
  [Java, Computer Networking Concepts]

Internet of Things (IOT) – Smart devices using XINU *(University of Florida)* *December 2016*
- o Designed Device drivers for sensors and actuators in XINU OS. Implemented Cloud-Edge-Beneath model of IOT to trigger devices based on the sensor data. Created an interactive web-interface for client via the cloud node.
  [C, XINU OS, Java Servlet, Tomcat server, CEB IOT model, jQuery, Bootstrap, HTML, CSS]

Data/Metadata Load and Management application for HFM and Essbase *(Accenture)* *May 2016*
- o Automated the process of data/metadata/resource dumps to and from Oracle HFM and Essbase across environments. Reduced the process time by 50% across environments. **[Java, HFM Java API, SQL, MaxL, MDX, Powershell, PL/SQL]**

.Net Based Journal Entry Module *(Accenture)* *March 2016*
- o 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. **[JavaScript, CSS, HTML, C# .Net, PL/SQL]**

Access and Security Portal *(Accenture)* *April 2014*
- o 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. **[Java, Oracle DB, Hyperion APIs, SQL, PL/SQL, PowerShell, BAT, Jython, ODI]**