

Aravind Ramachandran

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SUMMARY

Sr.Blockchain developer with close to 3 years of experience. Worked in platforms such as Ethereum and Hyperledger Fabric. Proficient in designing and implementing systems on top of distributed system frameworks. Adept at analyzing business requirements and translating them to system functionalities.

EDUCATION

University of Texas at Dallas
Masters in Computer Science(MS)
Aggregate: 3.67

*August 2015–
December 2017*

Courses Taken : Big Data Management and Analytics , Machine Learning, Data and Application Security, Advanced Operating Systems

EXPERIENCE

Sr. Blockchain Developer (April 2018 – Present): Exochain LLC Kennebunk ,ME, USA

Senior developer in the team that developed the Ethereum contracts for Exochain's ICO Event. Researched and implemented POCs to showcase the capabilities of the different Hyperledger platforms. Designed blockchain based support infrastructure for Exochain's Identity management system. Implemented the system components on both Ethereum and Hyperledger Fabric platforms.

Research Assistant (August 2015 – December 2017): The University of Texas at Dallas TX, USA

Research Assistant in Data Privacy Lab at UTDallas. My Research focused on distributed fault tolerant security for Bigdata systems. Implemented a system based on Ethereum smart contracts for data distribution, provenance tracking and verification of data changes.

Software Developer (August 2010 - October 2014): Cognizant Technology Solutions Kochi ,India

Technical Lead for Informatica team that worked for a leading US Automaker. Worked as Informatica QA Administrator for US-based power and utilities company project. Provided value-added services by building sales data warehouses and performed optimization for existing legacy systems.

MAJOR PROJECTS

ExoIdentity : A secure platform for identity and personal data management

- ExoIdentity defines a set of applications that ensure the secure data access using the power of blockchain platforms.
- The system is implemented using Hyperledger Fabric blockchain platform and off-chain components using ReactJs and AWS.
- As the Lead blockchain developer, my responsibilities included platform selection, designing and developing the blockchain components based on business requirements. Also ensuring that all coding standards and security standards are adhered to by our development team.

Hybrid Blockchains : A Secure Distributed Data Sharing Platform

- In the Healthcare sector, patient records shared between hospitals are subject to HPA regulations and patient consent.
- Our hybrid blockchain system provides a secure inter-organization platform for sharing patient records.
- Data are shared using a private permissioned blockchain platform such as IBM Hyperledger Fabric.
- A payment system was implemented using the public Ethereum platform.

SMARTPOVENANCE :A Data Provenance System Using blockchain Technology

- Extensive Bigdata adoption makes it difficult to track provenance information, especially in a distributed environment.
- The research community in particular would benefit from a provenance system that generates an immutable log of changes and supports failure tolerance.
- The project proposed a distributed secure data provenance system using the Ethereum blockchain technology.
- A secure immutable log of data change details are generated and stored in the public Ethereum blockchain platform for provenance tracking of critical data.
- Client modules were implemented using MeteorJs and MongoDB platforms.
- Published a [paper](#) based on findings at Codaspy2018

GMM based Collaborative Filtering System

- Recommendation Systems are important to fulfill the needs of a variety of users using a variety of platforms.
- Implemented a Recommender system using hybrid models, where we measure the similarities between users or items using GMM.
- The project was implemented on top of the Yelp data set using Hadoop cluster on Cloudera platform and Scala language.

Microsoft CRM Data Warehousing Application

- Our client company was phasing out the use of legacy Sybase systems.
- The project required the transfer of live data from Sybase (legacy) system to MS-CRM, two fundamentally incompatible systems.
- The performance was improved considerably. The combined ETL work flows (15 numbers) were optimized to bring an 8 hour run-time down to 1.5 hrs.
- The project was done using Informatica Power center, DB2, Sybase data system, Microsoft CRM.

SKILLS	Programming Languages:	Java, C++, SQL, Solidity ,Scala, Go,Shell Script
	Web Technologies :	HTML, CSS, JavaScript, Meteor JS, NodeJS,JQuery
	Database Systems:	SQL Server, Mongo DB, MySQL, Oracle 10g, DB2, PostgreSQL
	Methodologies :	Waterfall, Agile Methodology
	Applications and Tools	Hadoop, Hive, Map Reduce, HBase, Vi/Vim, Eclipse, Informatica Power Center, Ethereum Wallet, Hyperledger Fabric, Spark Scala, VMware,VirtualBox , Docker, IntelliJ and MS code.

WEBSITE <https://github.com/Aravindr1986>

REFERENCES On Request