Abil N George

OBJECTIVE

To secure a promising, successful, and challenging career in a reputed organization where my knowledge and skill can be effectively applied, enabling me to explore myself fully and realize my full potential.

EDUCATION

2013-2015 Master of Technology,

CGPA:8.72

Indian Institute of Technology Madras, India. Concentration: Computer Science & Engineering. http://www.iitm.ac.in

Specialization: Machine Learning (Deep Neural Networks)

2009-2013 Bachelor of Technology,

CGPA: 8.64

University of Kerala.

College Of Engineering, Trivandrum, Kerala, India. Concentration: Computer Science & Engineering.

http://www.cet.ac.in

2009 All India Senior School Certificate Examination,

Score: 88.80%

Central Board of Secondary Education.

Jawahar Navodaya Vidyalaya, Pathanamthitta.

http://www.navodaya.nic.in

JNV are Indian schools for talented students and form a part of the system of gifted education.

2007 All India Secondary School Examination,

Score :89.60%

Central Board of Secondary Education.

Institution: Jawahar Navodaya Vidyalaya, Pathanamthitta.

EXPERIENCE

June 2020 - MTS 1, Software Engineer, PayPal, Bangalore

CROSS PROPERTY ENTERPRISE DATA LAKE - Leading a team whose primary objective is to collect data from multiple subsidiaries of PayPal and transform and store it in a common model for consumption by Operational (Reporting/Finance) and Analytics Teams.

ENTERPRISE DATA QUALITY - Developed a Platform that enforced Data Quality across multiple teams and data sources (Oracle, Teradata, BigQuery, Hive, etc..) in PayPal. http://bit.ly/paypal-ref. Uses Hadoop (Spark), BigQuery, Hive

 $\label{eq:payPal} \begin{tabular}{ll} PayPal Inc $Reporting$ - Lead a team that created a Framework for consolidating reporting across multiple subsidiaries of PayPal (Braintree, Venmo, Hyperwallet) using Apache Spark. \\ \end{tabular}$

May 2019 - Software Engineer 3, PayPal, Bangalore

June 2020 PAYPAL REPORTING - Re-architecting PayPal Core Reporting. Designed a Spark-based system for merchant reporting. Core responsibilities included leading a five-member team that migrated Spring/Oracle-based Micro-services reporting stack to the Spark stack. Able to deliver monthly reports to 60 Million PayPal merchants by the first of every month (The old SLA was 10th of the month)

Jun 2016 - **Software Engineer 2**, PayPal, Bangalore

May 2019 MERCHANT REPORTING - Worked in multiple micro-services which generate Daily/Monthly Reports to Millions of PayPal Merchants. Uses Java, Spring and Hibernate Framework, and SQL.

PAYPAL SYNC APIs - Developed REST API which enables PayPal Customers to access his/her transaction data and derive insights by sharing it with third parties. Implemented using Java & Scala. Uses Hadoop (Spark), Kafka & Elastic Search

Jan 2016 - **Software Engineer**, PayPal, Bangalore

Jun 2016 Redesign of PayPal Resolution Center User interface - Developed a reusable framework that enables adding new flow within one day by just changing a few configurations. Implemented using Node.js, React.js & Kraken.js

July 2015 - Software Engineer, PayPal, Chennai

Jan 2016 ON-BOARDING API SERVICES - which provide REST APIs to orchestrate onboarding of new merchants into the PayPal & Braintree ecosystem. Implemented using Java & spring

Internships

2012- Software Development Engineer-Intern, Amazon.com, Chennai

Summer Implemented an effective framework for automated testing of Kindle Direct Publishing (KDP) Web Interface.

2011-12 **RSMT Algorithm Implementation-Intern**, GES Infotek, Trivandrum

The Rectilinear Steiner Tree Problem (RSMT) asks for a minimum length tree that interconnects a given set of points by only horizontal and vertical line segments, enabling the use of extra points. Implemented FDP (Fast Dynamic Programming) Algorithm For RSMT by Ganley & Cohoon which is based on Hwang's theorem

Publications & Patents

2020 Improvements to distributed systems with deep pagination, US-11599583-B2

https://patents.google.com/patent/US11599583B2

The patent describes the deep pagination issue in distributed databases and the solution to the issue while extracting whole data for given search criteria.

TECHNICAL SKILLS

Programming C, C++, Java, Scala, Python, Bash, HTML, JavaScript, Node.js,

Languages preliminary knowledge: PHP, R, CSS

Mobile SDK Android SDK, iOS (preliminary knowledge)

Operating GNU/Linux, Mac OS X, Microsoft Windows

Systems

Databases MySQL, Oracle DB, BigQuery, Elastic-Search, MongoDB (preliminary knowledge)

Frameworks Apache spark, Spring, Hibernate, Express.js

Cloud Google Cloud Platform, Amazon Web Services (preliminary knowledge)

Platforms

PROJECTS

Academic Projects

2014-15 Event Spotting in Video using DNN features,

https://github.com/abilng/Mtech-Thesis,

Python, Bash,

Guide: Dr. Hema A. Murthy, Professor, IIT Madras

Images and videos have become ubiquitous on the internet, which has encouraged the development of algorithms for various applications, including search and summarization. The objective is to spot events in videos based on video queries, using DNN features. We have also found a novel method for event recognition in video using Convolutional Neural Networks with pre-processed input.

2014 Python-DNN - Tool-kit for Deep Neural Network,

https://github.com/IITM-DONLAB/python-dnn,

Python, JSON,

Guide: Dr. Hema A. Murthy, Professor, IIT Madras

Python-DNN is a tool-kit for Deep Neural Networks which can run on GPU as well as CPU. It supports CNN, DBN, SDA, and many others. *Python-DNN* can be easily configurable by *JSON*. It can be used also as a Python library.

2013 Machine Parsable RESTfull web API,

https://github.com/abilng/sMash.it,

JavaScript, Python, Node.js,

Guide: Dr. Abdul Nizar, Professor, College of Engineering Trivandrum

A RESTful web API is a web API implemented using *HTTP* and the principles of *REST* (*Representational State Transfer*). By using a *Microformats*-like grammar that helps to annotate semantics into the already existing documentation of REST services doubling them as machine-readable descriptions. Moreover, these basic annotations help to link between REST-ful services in the same domain and enable automatic discovery and composition (creating *Mashups*).

Other Projects

2012 ARIA-Ethernet based public announcement system,

https://github.com/AriaCET/,

Guide: Dr. Rajasree M. S, Professor, College of Engineering Trivandrum,

Python (flask), JavaScript, HTML, Bash, Qt (Python)

ARIA (Asterisk Radlo Architecture) is an attempt to build a public announcement system over local network which is flexible. ARIA uses VoIP (Voice over IP) and SIP (Session Initiation Protocol). Originally developed for in house use at College of Engineering, Trivandrum (CET). Funded by Center For Engineering Research And Development (CERD), Govt. Of Kerala.