

Abil N George

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OBJECTIVE

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

EDUCATION

- 2013-2015 **Master of Technology,** CGPA :8.72
Indian Institute of Technology Madras, India. <http://www.iitm.ac.in>
Concentration: Computer Science & Engineering.
Specialisation: Machine Learning (Deep Neural Networks)
- 2009-2013 **Bachelor of Technology,** CGPA : 8.64
University of kerala.
College Of Engineering, Trivandrum, Kerala, India. <http://www.cet.ac.in>
Concentration: Computer Science & Engineering.
- 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**
PAYPAL INC REPORTING - Working on Consolidating reporting across multiple subsidiaries of PayPal (Braintree, Venmo, Hyperwallet).
- 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 Java-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 enable PayPal Customer to access his/her transaction data and derive insights by sharing to third party. 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 which enables adding new flow within one day by just changing 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 on-boarding of new merchants into 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*

TECHNICAL SKILLS

Programming Languages	C, C++, Java, Scala, Python, Bash, HTML, JavaScript, Node.js, <i>preliminary knowledge:</i> PHP, R, CSS
Mobile SDK	Android SDK, iOS (<i>preliminary knowledge</i>)
Operating Systems	GNU/Linux, Mac OS X, Microsoft Windows
Databases	MySQL, Oracle DB, Elastic-Search, MongoDB (<i>preliminary knowledge</i>)
Frameworks	Spring, Hibernate, Express.js
Software Packages	Eclipse, GCC, GDB, MATLAB, \LaTeX

PROJECTS

Academic Projects

2014-15 **Event Spotting in Video using DNN features,**

<https://github.com/abilng/Mtech-Thesis>,
Guide: Dr. Hema A. Murthy, Professor, IIT Madras

Python, Bash,

Images and videos have become ubiquitous on the internet, which has encouraged the development of algorithms for various applications, including search and summarization. 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 other. *Python-DNN* can be easily configurable by *JSON*. It can be use 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 RESTful 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,

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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.*