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ROHIT NANDI
- AI Programmer -

Hello,

I am an AI seeker, evolving everyday by creating applications and side projects in the field of AI. A generalist, polyglot software developer, not delimited by any programming language or framework. Acclaimed for being proactive and self-motivated team player.

I aspire to occupy a reasonable and challenging position in the domain of AI. Code, Create, Celebrate is my Mantra.

Want to work together? I'd love to hear from you :-)

AI EXPERIENCE

Ai Programmer
@ Decisive.ai | **December 2017 – present**

As the Core AI Programmer in a Startup, my responsibilities spread from designing, developing, maintaining a distributed platform which empowers AI to learn and showcase its Intelligence, using DL-NN algorithm implementations for the Gaming Industry.

Payroll Company Sarathi Softech Pvt. Ltd.

> Major Contribution

- Integration of database module.
- Incorporated SBT in the project.
- Implemented a Dashboard which helps in monitoring Agent training session progress and learning curve.
- Implemented distributed multi server processing using Akka.
- Implement Neural Networks using Dl4j.
- Refactoring project structure to be more modular, functional.
- Training Agents, finding hyper-parameters, creating reports and analysis.
- Taking interviews of upcoming candidates.

Tech: Scala-Java ecosystem (Akka, Play, DL4J, nd4j etc.), JavaScript Bootstrap, Chart.js, PostgreSql, SBT, Octave.

Research Associate
@ Aptean | **September 2017 – October 2017**

At a Hackathon conducted by ARL (Aptean Research Lab), I proposed a use case of Recommendation System for product Vantage and prototype was built for the same. Research on the same was done for two more of Aptean existing products Knova and CoreTrac during my 2 months tenure with ARL.

AI EXPERIENCE

> Project | Recommendation System

- Research of Various Content based and Collaborative based approaches.
- Analyzing 43 products of Aptean, gathering use cases of recommendation engine as an application in those products.
- Collaborating with various teams to gather data from their respective product, understanding their domain and scope of recommendation engine in them.
- Creating POC for the product Vantage.
- Creating report and presenting scope of Recommendation engine to Knova and CoreTrac teams.

Tech: Python 3.x, Jupyter notebook.

Side Projects
> Email Clustering | **December 2018**

To resolve the dump of emails in my Gmail inbox, unsatisfied with the limited number of labels Gmail categorize data I had this idea to gather insight from the emails in my inbox and categorizing them to more labels. Github Link

- Using **Gmail API** to gather emails to a .csv format dataset – Total of 37176 emails.
- Analyzing the problem to be Unsupervised Clustering problem.
- Preprocessing and Vectorizing using sklearn **Tf-Idf.**
- K-means to cluster the data.

TODO: Connecting the insight gathered from clustering with chrome extension to view the mails according to the labels clustered.

Tech: Python 3.x, Gmail-API, Google Colab, sklearn, pandas.

> Image Clustering | **January 2019**

To resolve my overgrowing pictures taken from phone, watsapp and other sources, I am developing this image clustering app, which is going to group the similar images into a folder. **Ongoing!**

FULL STACK WEB DEV. EXPERIENCE

Engineer, Development
@ Aptean | November 2016 – December 2017

Joined as a Full Stack Web Developer for product Vantage gained expertise on multi-tenant architecture built on **Scala-Ecosystem Technology Stack.**

> Vantage | CMS-CRM Web Application Product

Being the 1st member of Indian dev team, of a newly procured product by the company, my responsibilities were to acquire product knowledge to lead upcoming members of the team, Bug fixes, Develop new enhancements, Contribution in product Migration and Architectural Enhancement Prototype, Refactoring old Modules, implementing Unit-testing framework.

Most valuable contribution was revamping the Storage module giving it a new look (something similar to Google Drive) powered by a Rest API, which enhanced the module performance by making it faster and crash-free.

Technologies Used: Scala, Play-Scala, SBT, Akka/Kafka, PostgreSql, Slick, Sqitch, Bootstrap, JQuery, UI Markup (HTML5, CSS3, JavaScript), JSON, GIT.

Tools Used: IntelliJ Idea, PG-Admin, Nix-OS

System Engineer
@ Infosys Ltd. | July 2015 - November 2016

Joined as a Fresher, went through a stringent training at Infosys Mysore. Outperformed the peer, becoming the Top Performer by consistently excelling in a series 8 exams. Gained technical experience on technologies like Python, Oracle DB 9i/10g, Java 8, JEE, JSF, Hibernate, Web-Tech (HTML5, CSS3 and JavaScript), jQuery, JUNIT-Mockito, Ant.

> E-Flight | Business Web Application

Worked as a Full Stack Developer enhancing the existing Eflight application by adding new client requirements, bug fixing in existing modules for the client Bristow Group Inc.

Technologies Used: Web-Tech (HTML5, CSS3, JavaScript), java 7, jQuery, Spring, Hibernate, MySql.

Tools Used: Eclipse Indigo, Toad 7.7, Apache Tomcat 7.02, iReports 4.5.1, Mozilla Firebug, Tortoise SVN.

Also worked in 3 internal POC projects namely:
> PyRecharge | Console Application
> Electronic Payment System | Web Application
> Food Coupon Vending System | Web Application

FULL STACK WEB DEV. EXPERIENCE

INTERN
@ Globsyn Skills Development Pvt. Ltd. | June – July 2014

Attended a 22 days practical training program on JEE Technologies like servlets, jdbc, JSP and also MySql and Apache Tomcat. It helped me in building a foundation of knowledge in the field of Web Application Development, followed by a Corporate Project.

> Online Examination Portal | Web Application

Worked as a Full Stack developer in a team of four, creating a recognized master piece of Web Application ready to be operational by Educational Institution for facilitation of online examination.

Technologies Used: Java, JSP, J2EE, HTML5, CSS3, JavaScript.

INTERN
@ Bharat Sanchar Nigam Ltd. (BSNL) | January 2014

My first on field working experience was at BSNL Telecom Factory, learning and collaborating with professional engineers with utmost domain knowledge.
> Research on LAN and Network Management | Networking

Created a report on existing LAN network connectivity in the Factory, finding latency causes in it and providing better network topological solution.

EDUCATION

Scala Certification | April 2017 - 1 month

Corporate training at Aptean provided by **Siddi Softec – Aditya Prabhakara,** with hands on in Play/Scala MVC, Akka/Kafka projects.

Bachelor in Technology | August 2011 – June 2015
Heritage Institute of Technology

Certified by Maulana Abul Kalam Azad University of Technology formerly known as **WBUT**, I undergraduated in **Electronics and Communication Engineering**, with **8.12 DGPA** and got the opportunity to work under **Jadavpur University** professor for the final year project described below.

> Coronary Artery Centre Line Extraction | Image Processing

University Final Year Project on Image Processing using MATLAB. Thesis on above, implementing a modified algorithm based on **Region Growing technique** to detect the center line of a coronary artery from a gray scale x-ray image.

EDUCATION

Higher Secondary School Examination

Kerala Samajam Model School | March 2010

Board: Indian School Certificate (ISC) - **84%.** Among top 10 scorers from school.

Secondary School Examination

Kerala Samajam Model School | March 2008

Board: Indian Certificate of Secondary Education (ICSE) - **87%.**

Awards & Certifications

Aptean GEM (Go the Extra Mile) Award | October 2017

Appreciated for my **Proactive work,** which helped the company meet its goal for the product Vantage and also for the research work at Aptean Research Lab which added business value to Aptean existing product.

Infosys Top performer Trainee | December 2015

Stood as Top Performer (TPF) by scoring overall aggregate of **93%** during Infosys Training at Mysore, **1st in Java stream**.

Robotics | 2014

Finalist in Inspiral-On (a manual robotics event) at Kshitij 2014 (IIT Kharagpur Technical Fest), where teams participated from all over the globe.

Microsoft Certified Solutions Developer (MCSD) | September 2016

Certified in **"Programming in HTML5 with JavaScript and CSS3"** (Exam Code 70-480) conducted by **Microsoft**, by scoring **85.7%**.

Microsoft Technology Associate (MTA) | June 2014

Certified in **"Database Administration Fundamentals"** (Exam Code 98 – 364) conducted by **Microsoft**, by scoring **84.2%**.

Microsoft Office Specialist (MOS) | June 2014

Certified in **"Microsoft Office Word 2010"** (Exam Code 77-881: MOS) - 81.5 percentile and **"Microsoft Office PowerPoint 2010"** (Exam Code 77-883: MOS), **89.3%** conducted by **Microsoft**.

Exorsa v2.0 | September 2014

Intra WBUT University online fest conducted by mywbut.com, participants enrolled from colleges all over west Bengal.

> Bagged **3rd** position in **"FAST PRESENTER"** online power point presentation to be submitted in 30 minutes.

> Bagged **7th** and **9th** position in **"WWWIZARD",** a static web design competition.

EXPERTISE

Polyglot | General programming, DS and Algorithm

Scala [in use], **Java** [my first friend], **JavaScript** [for interaction]**, Python** [tool for Machine Learning]

My Colleagues | as I work with them :-P

Scala, Java, JavaScript, Play-Scala, Dl4j, SBT, Akka, PostgreSql, GIT, AWS-EC2 deployment, Python, pandas, numpy.

Used sometime in past | need brush up, not interview ready

Slick Sqitch, Bootstrap, JQuery, UI Markup (HTML5, CSS3, JavaScript), JEE(Servlet, JSP/JSF, JDBC), Spring, Hibernate, JSF, Angular JS, Node JS, Android ADT, Toad-MySQL client, DATABASE (SQL Server 2008, Mysql, Oracle SQL), iReports, PHP, VB.Net, ASP.NET.

Freelance

Subject Matter Expert - Computer Science Engineering @ Chegg | November 2016 – December 2017

Chegg Inc. a US Education Giant, a leading provider of online homework helps for college and high school students like Harvard and prestigious college from all over the world. **Role:** As a subject Expert work was to help Chegg registered students with their assignments and projects.

Online Shopping Portal with Secure Gateway | August 2014 - February 2015

Description: E-Commerce Shopping web application with encrypted secure payment by implementing RSA algorithm.
Tech Used: Java/JEE (HTML5, CSS3, JavaScript, JSP, Servlet) and MySQL.

Immigration System | January 2014 - August 2014

Web Application resembling Indian Bureau of Immigration (BoI), where immigrants can apply for application and learn about Indian law and culture.
Tech Used: HTML5, CSS3, JavaScript, PHP and MySQL.

School Management System | 2014

School Data Management system where parents can check for children's report and school activities as well as teachers can update or create activities.
Technology Used: HTML5, CSS3, JavaScript, PHP and MySQL.

Electronic Bill Payment System | 2013

A Windows Application for customers to check and pay electricity bills and also with admin UI for admin to update and generate electricity bills.
Technology Used: Vb6, visual studio 2008 and MS Access.

Date: February, 2019   **Signature: Rohit Nandi**