Richard Martin

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PROFILE SUMMARY

▸ Software engineer with ~4 years of experience in Python who has extensively worked on & possesses sound understanding in the areas of Hadoop/Spark Development, Big Data analytics, ETL processes, Machine Learning & Computer Vision (OpenCV)

▸ Proven skills in delivering and implementing project deliverables as per scheduled timelines, extending post-implementation and maintenance support to the technical support team and client.

SKILLS

▸ **Skill Set in Python:**
- ▪ **Data Analytics**: pandas, numpy, scipy, Scikit-learn, NLTK, RASA, spaCy, SQL Alchemy
- ▪ **Web Frameworks**: flask, Django, cherrypy
- ▪ **Data Visualization**: Matplotlib, Seaborn, Plotly
- ▪ **Image Processing**: OpenCV, PIL

▸ **Databases :** Hive, Spark (with PySpark), HBase, Kafka, MSSQL, Cassandra, PostgreSQL

▸ **Others:** Git, Bash, Tidal, Perforce, Apache Airflow, RESTful APIs, Kubernetes, Azure

EXPERIENCE

UST

Software Engineer (March 2019 – Present)
Client: Adobe

▸ **Outlier Detector (DRAX/DQ):** Central data repository built for teams across Adobe to run validations & detect outliers on data from different source systems (Hadoop/ HANA/ HBase/ Spark/ SQL Server) by analysing trend of historical data using ML forecasting algorithms like Prophet, MAD, SARIMA (Time Series Forecasting).

▸ **Configurator Automation (CONGO):** Automation tool designed with Flask based server to reduce developer effort & time to update KPIs in existing SQL & HQL scripts.

▸ **NLP based smart analytics tool (Poodle/Slate):** Web based interactive designed on Flask tool to derive SQL/MDX queries from natural language questions that could be utilised to query data from various data sources(kyvos cube, MySQL, Cassandra, HBase)

▸ **Customer Data Management (Audience Manager):** Translating business' requirements into quantitative queries and collecting/cleaning the necessary data. Building scalable databases capable of ETL processes using SQL & Spark.

Timble Technologies Pvt Ltd(Formerly known as Student Eduventures Pvt ltd.)

Lead Python Developer (May 2017 – Feb 2019)

▸ **Mattress Size detector(Client - Sleepwell):** Calculating size of objects with upto 5mm accuracy on an active conveyor belt by building object detection models with OpenCV.

▸ **For Unique Identification Authority of India (Aadhar UIDAI):** Project involving Deep Learning with Convolutional Neural Networks on Django.

▸ **Timble Face Rec:** Facial recognition with openface on live camera feed with a database of 150+ faces.

▸ **Web penetration testing(Client Sleepwell):** Penetration testing on Sheelafoam group (http://www.sheelafoam.com) to ensure valid & effective security protocols are in place.

Mirketa (Internship)

Junior Software Developer (March 20th 2017 – May 10th 2017)

▸ Built tools using Advanced Java

PROJECTS & INDUSTRIAL TRAININGS

▸ **Home automation systems using AtMega 16:** Built a home automation system on Atmega 16 to switch Light/Fan by motion sensors. Integrated heat sensors to the home automation system.

▸ **Solar Cell powered circular microstrip patch antenna:** Integrated a circular microstrip patch antenna and solar cell arrays as an active power source and obtained results on MATLAB

▸ **BEL** - Six Weeks summer training from BEL(Bharat Electronics Limited) in study of Radar (2015)

▸ **HP** - Internship at HP and worked on ARM Microprocessors (2014)

EDUCATION

Guru Gobind Singh Indraprastha University
Bachelor of Technology(Electronics & Communication); Aggregate 65.7%

CSKM Public School
SSCE(PCM); Aggregate 82.83%
SSE: Aggregate 81.40%