

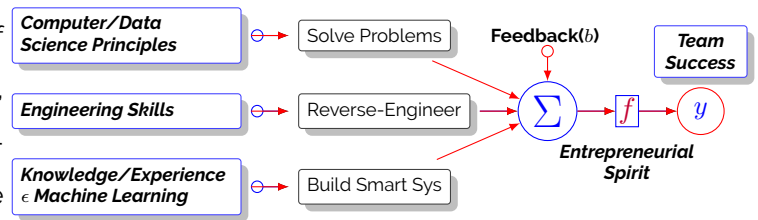
Computer/Data Science (ML)

SUMMARY

My entrepreneurial spirit has led to the overall success of my teams by combining;

- Computer/Data Science principles to solve problems, create/improve processes, avoid mistakes & deliver.
- Engineering skills to fix, build, automate & reverse-engineer tools to facilitate and automate daily tasks.
- Knowledge/Experience in Machine Learning to build the right infrastructure for big data & smart systems.

These are rules I follow to use my experience as feedback to improve and grow performance in my team.



EXPERIENCE

06/2019–Present
New York, NY

Sr. Systems Engineer (Data Platform)

NPD Groups Inc.

I designed, architected and, mainly using *Python & Pandas*;

- Created Data Structures to deliver and automate scalable marketing analytics solutions.
- Built a scalable platform to process, manage and model data through its own interface.
- Built & integrated analytics solutions applications as a tool using a generic approach.
- Designed & developed data management processes for data integration and ETL workflows.
- Improved data collection, preparation, and modeling using a generic and OOP approach.
- Created stable, documented code for data management, modeling and optimization.
- Developed, automated and integrated multiple testing processes to ensure quality.
- Collaborated with teams to align architecture and manage deployment.
- Collaborated to challenge, clarify, and improve user stories and our backlog process

Tools: *Linux, Windows, AZURE, Docker, GitHub, FLASK, OOP, Algorithms, Agile, SDLC, MVC, CRISP, SQL <> Git, Python, Pandas, Numpy, Matplotlib, Json, Spark, NoSQL, JS, HTML, CSS*

9/2017–3/2019
New York, NY

Sr. Systems Engineer (Data & Machine Learning)

Insticator Inc.

I designed, architected and, mainly using *Python & Pandas*, built:

- A Data Science system to collect, clean, prepare and mine big data.
- Data Pipelines, APIs/APIs integration, management/reporting tools & automation in Servers.
- API/Integration for *AWS, Lambda, S3, RedShif, Keen, GCP, Google Analytics(GA)*
- Recommendation Engine & *NLP* Algorithm to map text to taxonomy tree.
- API Floor-Change, Modeled data for ML & Automation in *Cloud Servers*.
- *Asana* Tasks, Tools & reporting automation for Data Science/AdOps in Cloud Servers.
- BI Analytics tools with *Python, Keen, GA, RStudio, SuperSet & DundasBI/D3*.
- Documentation Script and Automation with *Sphinx, Flask & DataTable*.
- Data Security/Back-Up with a *Django* web portal, *PostgreSQL/MySQL*.
- Management Process to lead and support projects using *Git, TDD, SDLC, Asana, SCRUM & Jira*.

Tools: *WIN, Linux, GCP, AWS, RedShift, RDS, OOP, Algorithms, SQL, NLTK <> Data Structures, Numpy, Matplotlib, Json, Java, NoSQL, JS, Pattern, Textblob,*

11/2015–2/17
New York, NY

Lead Software & ML Systems Engineer

True Interaction

I designed, architected and, mostly using *ROR & Data Structures*, built:

- Process to technically direct and support the design & development of multiple projects.
- Data Models & Insights reports while providing (front/back)-end support to build web apps.
- A System to generically perform big data analytics for clients using data mining techniques.
- A Revision Plan to meet requirements and employ programming & mining techniques.
- Data Mining process to apply experience and to suggest/implement solutions to manage clients development, expectations and data using tools such as *MongoDB* & a top *MySQL* layer.

Tools: *Linux, GCP, Git <> Json, JS, Java, Python, R, CSS, D3, NoSQL, OOP, ML, Tensorflow & Keras*

8/2014–11/15
Rockleigh, NJ
Pasadena, CA

Full-Stack Engineer

Tiburon Lockers Inc.

I designed, architected & developed:

- A Web Application to provide users with product & payment management services.
- Data Management, reporting tools & automation in the *Cloud with MySQL*.
- Installed/Improved all necessary software, data security & administration.

Tools: *WordPress, Linux, AdobePS <> PHP, HTML, CSS, OOP, JS, HighCharts,*

- I developed a web application to manage electronic-lockers & company data.
- Provided Tech. Support with lockers Software/Hardware testing, installation & development.
- Performed *ETL* & process, reporting, testing, prepared technical documentation, among others.

Tools: *ROR, Linux, Git <> MongoDB, Json, SQL, JS, Java, Python, R, CSS, PHP,*

5/2011–10/12
Bohemia, NY
Rochester, NY

Computer & Electrical Engineer

Data Device Corporation

Tools: *WIN, Linux, Oracle <> MySQL, BugZilla, Software/HW Testing,...*

- I performed Software & Circuit testing and provided client & manufacture tech support.
- Managed Oracle Database product selection to satisfy application requirements.
- Performed *ETL* & process, reporting & prepared tech. documentation, among others.
- I performed Circuit Analysis & testing, reports & process documentation.
- Reviewed suppliers facilities capabilities and reported on their suitability.
- Identified needs, solved products technical issues onsite, at client's facilities and support.

Tools: *WIN, Linux <> Circuit Analysis, Software/Hardware Testing,...*

NON-PROFIT

3/2017–Present
New York, NY
Seasonal

Computer & Data Science Consultant

I provide consulting and programming services to architect and build :

- A System to process & mine patients records in a large scale, & integrate *OpenMRS* & *PostgreSQL*.
- Data Pipelines, APIs/integration, reporting tools & automation in *Cloud Server with AWS & RDS*
- *Machine Learning* Algorithm to predict diagnosis based on patients historical data.

Tools:Linux, GCP, AWS, Git, Spring, Eclipse <> OpenMRS, Python, Java, SQL, Tensorflow & Keras

Samasta Health Foundation

EDUCATION

2012-2015	Computer Science MS	Minor in Data Mining: Big Data & Machine Learning	RIT	3.3
2012-2015	Computer Science MS	Major in Computer Graphics: Artificial Intelligence	RIT	3.3
2007-2012	Computer Engineering BS	Major in Computer Eng. Tech: Advanced Programming	FSC	3.2
2007-2012	Electrical Engineering BS	Major in Electrical Eng. Tech: Digital/Circuit Analysis	FSC	3.1
2003-2004	Technical Diploma	Microsoft/Data-Entry Adm: Microsoft Office/Keyboard	CENTEP/CETI	4.0

SKILLS

Languages:	English: Excellent	Spanish: Excellent
Software:	Good Level	Data Mining(DM), ML, OOP, Data Structures, MVC, Python, ROR,Java, R, C++, MongoDB, Json, SQL, WEKA, MatLab, JS, HTML, PHP, GIT, GCP, AWS, Linux, Pandas, RedShift, S3, Flask, SciPy, scikit-learn, DundasBI/D3, ...
	Intermediate	Postgres, LaTeX, Bash, C, C#, CSS, WIN, IOS, Keen, NLP, Spring, Eclipse, WordPress, Django, pygsheet, JIRA, Asana, Xlswriters, ...
	Basic Level	OpenGL, MS-DOS, ABEL, Xilinx, LabVIEW, Network/Data Comm,...
Engineering:	Good Level	Visio, LucidChart, Statistical analysis, K-Map, Logic Gates, Adders, Multiplexers, Decoders, Flip-Flops, Converters.
	Intermediate	Semicond diodes, BJT'S & Q pt. OP conditions, Diode circuit, rectifiers, zener diodes, R-C/R-L switch filters.
	Basic Level	Regulated/max power transfer analysis, Electric magnetic fields, and cap. ind, network analysis.

PROJECTS

CG/DM	RIT-2015	ASL Recognition WPF App: (Kinect+Leap Motion) Integration - C#/ML	Visual Studio/.Net
DM	RIT-2014	Month/Age-Group Prediction: ML-Highest Road Accident Prob. - ML	WEKA/Eclipse, Java
DM	RIT-2014	What Should I Wear Web App: ML-Weather Probability - Machine Learning	WEKA/Eclipse, Java
CG/AI	RIT-2013	2D-3D Conversion: AI-Eclipse Application - OpenGL/Java	Eclipse
CG/AI	RIT-2013	Holographic Pong: AI-VS Application - OpenGL/C++	Visual Studio
DM	RIT-2013	Best Time to Vacation: Machine Learning-Web App - MySQL/Python	Django/PostgreSQL
CG	RIT-2012	Battle Ship Game: GUI Application - RESTFUL Java API	Eclipse/LINUX
CG/CV	RIT-2012	Car Segmentation: Computer Vision	Matlab
CG/CV	RIT-2012	Scene Category: Computer Vision	Matlab
CE/EE	FSC-2011	Smart Meter Home App: manage power of devices in a network	ZigBee/C/PIC(CE)

PUBLICATIONS

2015-15	ASL Recognition App: app that uses image processing to translate signs to text	Visual Studio
2013-14	Month/Age-Group Prediction: age-group with higher likelihood to have accidents	Weka/Eclipse
2013-13	2D-3D Conversion: convets 2D image to 3D and allows rotation of all objects	Eclipse/OpenGL
2012-12	Battle Ship Game: RESTFUL Java app to play BSG with a bot	Eclipse/LINUX

HONORS & AWARDS

2016-17	Work/Dedication Recognition: built Data Science Sys with limited resources	Insticator INC
2012-15	MS International Scholarship: awarded for having outperformed scores at FSC	MESCYT & RIT
2012-12	Honorable Mention Technology: prototyped project cap-stone and won 2nd place	NYS STEP/CSTEP
2011-12	MS Acceptance Diploma: Data Science Program, Postponed due to Funds	NYU
2011-11	Recognition Award Certificate: helped collect and ship food/clothes to Haiti	FSC
2007-11	Dual BS Scholarship: awarded for outperforming in High School and at FSC	SESCYT & FSC
2002-06	Academic Excellence Merit: awarded for outperforming in High School	Mateo Lara HS
1999-00	Art Scholarship: awarded for outperforming in art and creativity	Gen. A. D. School

ACTIVITIES/AFFILIATION

2017-PT	SAMASTA Health Org. help create smart systems to help children in need	Consultant/Developer
2013-PT	National Society of Leadership & Success: awarded for outperforming at RIT	Alumni Member
2009-PT	IEEE Alumni Member: receive projects and compensations slots in latest tech.	Member No.:90613000
2009-12	Engineering Group: contributed to the development of students technical skills	Alumni Member-FSC
2009-12	Project Development: represented FSC and competed in tech-advanced projects	Alumni Member-CSTP
2009-12	Latin American Org.: helped Latinos with social integration & professional skills	Alumni Member-LASO