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Lead Software Engineer
Software and data engineer with success leading innovation for high tech organizations

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Analytical professional with expertise creating and executing strategies to produce fast, scalable solutions for high performance data collection, analysis, and mining that align with business needs. Team leader who fosters collaboration leading to the successful development of technical products and support tools.

Diverse experience working with small internal tools as well as complex, client-facing environments utilizing multiple programming languages and third-party tools.

Proficient in Agile project methodology to create schedules and define project scope, objectives, and client requirements to meet goals within the timeline and budget parameters.

Skilled in machine learning, computer architecture, data science and analytics, as well as programming languages and tools for data mining such as Java, Python, Pandas, and Amazon Web Services.

Trilingual in English (advanced), native Spanish, and Russian (basic).

Highlights of Expertise

Data Engineering / Analysis	Software Engineering	Machine Learning
Computer Architecture	Computer Science	Technical Strategy
Team Leadership	Technical Infrastructure	Project Management

Professional Experience

» Head of Engineering (November 2018 – Present)
Datank, Mexico City, Mexico

Develop technical strategy and roadmaps in alignment with company vision for development of next generation products. Collaborate with cross-functional departments in managing end-to-end lifecycle of technical projects, ensuring progression for on time delivery of quality product. Led and provided support to engineering team, prioritizing sprints and milestones to complete day-to-day development efforts. Drove continuous improvement in technological platforms, measuring performance against key performance indicators to maintain and optimize quality.

- Utilized leading-edge technologies such as Amazon web Services to design and architect multiple environments.
- Ensured health and availability of technological base of all products.

» Principal Engineer / Co-founder (2016 – 2018)
The Data Whisperer, Mexico City, Mexico

Founded company and developed technical strategy and engineering capabilities for company providing data analytic solutions to small to medium companies. Established business continuity plan ensuring alignment with company standards, and implemented strategic goals in effort to increase profitability. Employed subject matter expertise to oversee design and implementation of data-driven platforms as well as high availability and low latency applications.

- Developed prediction algorithms for marketing and financial industries.
- Designed multiple data processing pipelines, and machine learning models and systems.

» Engineering Lead (2014 – 2016)
GMV, Mexico City, Mexico / Madrid, Spain

Coordinated planning and implementation of development activities, leading global engineering teams in collaborations with external stakeholders. Employed Agile project management methodology throughout numerous projects, ensuring delivery on-time and within budget. Managed various business functions including hiring and team expansion. Managed day to day project activities including assigning tasks to engineers and prioritizing work.

- Served as technical advisor to engineering teams.
- Forged strong relationships with clients, cross-functional managers, and team members to support project efforts.

» Principal Software Engineer / Senior Software Engineer (2010 – 2013)
Sm4rt Predictive Systems, Mexico City, Mexico

Developed data pipelines to analyze complex data sets, providing access to reliable and well-structured datasets for analytics. Created business intelligence tool such as dashboards to provide optimal view of performance metrics. Customized software architecture and deployed machine learning infrastructures to accurately analyze large volumes of data. Designed and implemented ultra-low latency systems, high performance web sites, and RESTful web APIs with the aim of optimizing operational efficiency.

- Ensured reliability of predictive models under high loads.

- Devised multiple machine learning algorithms for bank transactions fraud score.

Education

» Master of Science in Computer Science, 2016
Instituto Tecnológico Autónomo de México

Thesis: ColumnSort implementation in the Standard Template Adaptive Parallel Library
GPA: 90/100 Honors

» Short Term Scholar, 2015
Texas A&M University, Parasol Lab

Contributed to development of parallel sorting algorithms in STAPL

» Bachelor of Science in Computer Engineering, 2007
Instituto Tecnológico y de Estudios Superiores de Monterrey

GPA: 86/100

Technical Proficiencies

Operating Systems	Linux, MacOS, Windows
Programming Languages	Java, Python, R, Bash, C, C++, Go, CUDA
Databases	Postgres, MySQL, MongoDB
Web Development	Django, Play! Framework, React.js
Big Data	Hadoop, Spark, Scoop, Luigi
Machine Learning	Pandas, Numpy, Sklearn, Nltk, OpenCV, Pybrain
Cloud Providers	Amazon Web Services, Google Cloud, Digital Ocean
Virtualization	Docker, Kubernetes, VirtualBox
Other	Software Architecture, Security, Web Optimization, Database Optimization