




JOHN METTA


Software Architect
Mathematical Modeler

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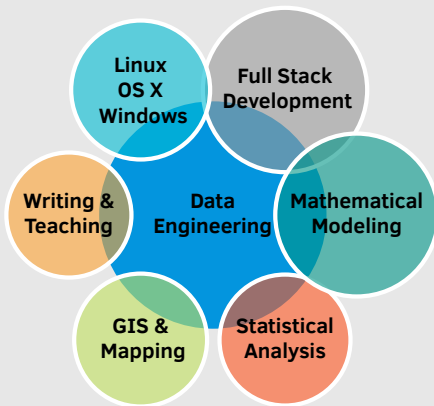
 /in/johnmetta

 johnmetta

Pre-marriage Name: John Pennington

Skills

Quick Overview



Specialty Experience

1 Year —————> 10 Years

Software Development

Mathematical Modeling

GIS, Mapping, Remote Sensing

Technologies

Languages - C/C++ • C# • Python • Ruby • Javascript • Scala • Java • (No)SQL • Erlang • Shell • etc.

Analytics - Numerical Python • R • Matlab/Octave • D3 • Graphviz • etc.

Hardware - Limited experience in embedded Linux (μ Clinux, Blue Cat), Real-Time programming, FPGA programming, and autonomous positioning systems

Summary

I am an well-rounded full-stack software architect and mathematical modeler. I have developed data analysis systems and user applications in multiple fields from remote sensing to watershed planning to pharmaceutical salesforce assessment.

Experience

- Apr 2012 – Aug 2017 **Senior Software Developer** Qstream, Inc
- **2016-2017:** Integrations Team lead. Provide system-wide data integrations, microservice, and API development and support.
 - **2013-2016:** Client Request/Maintenance team lead. Find and troubleshoot system-wide production issues and respond to direct programming needs of clients.
 - **2012-2013:** Architect primary data analytics system.
- Jan 2008 – Dec 2012 **Founder** Hydrasi
- Started a SaaS company providing delivery, visualization, and sharing services for scientific and environmental data. Company found some initial traction, but was ultimately shut down in 2012.
- May 2008 – May 2012 **Owner, Scientific Software Architect** John Metta, LLC
- **2010-2012:** Architect new OASIS modeling application and database system for Hydrologics, Inc for use on NYC water supply. Train Hydrologics team on advanced development.
 - **2008-2010:** Subcontractor to Army Corps of Engineers performing scientific data acquisition, analysis, and application development.
- Jan 2007 – May 2008 **Water Quality Hydrologist** Oregon Department of Environmental Quality
- Mathematical modeling of the Oregon river systems to support development of water quality regulations. Programmed main temperature modeling system (Heatsource).
- Jan 2005 – Dec 2007 **Programmer, Research Assistant** Oregon State University
- Biosystems Modeling Group
- Provide software development and math/environmental systems modeling for the Biosystems Modeling Group.
- Jun 2003 – Dec 2004 **Programmer, Research Assistant** Oregon State University
- Geosciences Department
- Develop a graphical user interface and 3-dimensional visualization library to support a large-scale geomorphology model.
- Sep 2000 – Jun 2003 **Undergraduate Research Assistant** College of Charleston
- Various software development (remote sensing, hydrology) and teaching (Python programming, robotics) positions with Geosciences Department, Anthropology Department, US Forest Service, and Charleston County School District.

Education

- 2003 - 2007 **Double Masters: Engineering, Geography** Oregon State University, OR
- MEng, Msci **Ecological Engineering:** Environmental systems modeling
- Physical Geography:** Water resources management
- 1997 - 2003 **Double Bachelors: Anthropology, Geology** College of Charleston, SC
- Anthropology Department, Geosciences Department

Military

- 1991 - 1996 **United States Navy** • Submarine Sailor
- 1989 - 1991 **United States Army** • Surgeon's Assistant (*Deployed: Desert Storm*)