Alexander Jansing

Resume

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Education

2015–present **Computer Science M.S.**, *SUNY Polytechnic*, Utica, NY, *3.61*.
Focus in Algorithms and Machine Learning

2012–2015 **Applied Mathematics B.S.**, *SUNY Oswego*, Oswego, NY.
Focus in Computer Science and Statistics

Experience

Vocational

01/2016–present **Data Scientist – Computer Science**, *Booz Allen Hamilton*, Rome, NY.
Performed analysis using various technologies like Nifi, Hadoop, and dockerized web services.

2015–2016 **Graduate Assistant**, *SUNY Polytechnic*, Utica, NY.
Graded homework, held office hours, and designed grading schemes for Finite Mathematics.

Miscellaneous

2012–present **MQ-9 Avionics Technician**, 174^{th} *Fighter Wing*, Syracuse, NY.

2009–2012 **F-16 Avionics Technician**, *United States Air Force*, Phoenix, AZ.

Computer skills

Programming Languages: Java, Python, LaTeX, Javascript, jQuery, Shell scripting, HTML, CSS, C, Matlab, R, HC11/HCS12 Assembly

Databases: Accumulo, OrientDB, TitanDB, MongoDB, Postgres, Hadoop

Systems: Linux (CentOS and Ubuntu), Mac, Windows

Technologies: Git, Jira, Confluence, Nifi, AWS, Maven, Docker, Docker Compose

Presentations

October 2016 **An Overview and Brief Tutorial of Niagara Files**, *Booz Allen Hamilton*.
Niagara Files (Nifi) is a digraph ETL program that provides a web-based UI, loss tolerance, data provenance, and the ability to create custom processors using a Maven archetype. Covered what a FlowFile is and some of the most important concepts of Nifi that are needed to understand before working with Nifi.

May 2015 **Lie Algebras**, *SUNY Oswego Mathematics Department*.
Lie algebras have two special operators, the Lie bracket and the inner product and they both have special characteristics that impose algebraic and geometry restrictions on the spaces they apply to. We looked at how they interact, and wrote programs in Sage (Python) that generate general forms of the matrix representations of these interactions.