Alexander Jansing

Data / Software Engineer

28 April 1989

Liverpool, NY 13088

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About me

Air Force and Air National Guard veteran with a Bachelor of Science in Applied Mathematics and a planned graudation date of May 2019 to finish a Master of Science in Computer Science. Attends local Meetups and hackathons to further knowledge and get a better feel for professional environments outside of the defense industry.

Skills

Java, Python

Scala, MATLAB

HTML, CSS, Javascript

Bash

Databases

Hadoop, Accumulo

MongoDB, Postgres

OrientDB, TitanDB, Spark GraphX

Bash⋆3.7 HTML⋆4 Java⋆5.8

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

interests

Free time is spent with friends, at hackathons, writing code, or unwinding with a good game or book.

education

2015-2019 M.S. Computer and Information Sciences — SUNY Polytechnic
Focus in Software Engineering and Mathematics
Relevant courses:

Quantum Computing	AI Topic: Data Science	Machine Learning
Formal Methods	Big Data Platforms	Parallel Computing
	Numerical Diff Equations	

2012-2015 B.S. Applied Mathematics — SUNY Oswego
Cognate in Computer Science

experience

2018–Present Software Engineer, Mid – Computer Science — Booz Allen Hamilton
Working as an Implementation Specialist on the Swift project. Using Concourse, Sonarqube, Docker, and Bash scripts to create CI/CD pipelines that can be applied to arbitrary projects with minimal adaptation.

2018–2018 Software Engineer, Asc — Lockheed Martin
Worked on a variety of projects involving signal processing. Developed analytics for Noise Reduction and identification of Modulation techniques using methods like KMeans and DenseNet.

2016–2018 Data Scientist, Junior – Computer Science — Booz Allen Hamilton
Worked on the AFRL Active Insights project that was demoed at GeoINT2017 and will be demoed at GeoINT2018. Work focused on ETL, designing a data lake, and provenance tracking.

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

awards

2018 Open House Planner — Hack Upstate XII
Grand Prize and Best Use of Esri Technology
A project that was inspired by a real-world problem.
“What if two houses are significantly far apart, open at similar times, and there are other houses in each of their respective neighborhoods that open at different times? Is there a way I can plan my day of house hunting so that I can attend all of the open houses?"

2018 Move Helper — Hack Mohawk Valley
Best Use or Open Data

2018 Buffalo Crime Data — Hack Upstate XI
Buffalo Civic Innovation Challenge

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Presentations

2016 **An Overview and Brief Tutorial of Niagara Files** — Booz Allen Hamilton Tech Talks

Booz Allen Hamilton's internal webcast and conference line. 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.

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.

Computer skills

Languages	Java, Python, Scala, Matlab, R, Groovy, Bash, LaTeX, Javascript, Bash, HTML, CSS
Databases	Accumulo, OrientDB, TitanDB, MongoDB, Postgres, Hadoop
Technologies	Git, Jira, Confluence, Nifi, Apex, Spark, AWS, Maven, Docker, Docker Compose, Concourse
Systems	Linux (CentOS and Ubuntu), Mac, Windows