

# Alexander Jansing

## Resume

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### Relevant Experience

Aug 2021 - **Data Engineer II**, *TetraScience*, Remote

Present ○ Data Insights:

- Perform exploratory research on laboratory equipment and report findings in company Confluence to guide schema and parser design and implementation
- Implement schemas and parsers to ingest data from customer laboratory experiments
- Work with customers via Zendesk and Microsoft DevOps

○ Data Engineering Infrastructure:

- Develop internal tools to accelerate deployment process and enforce coding standards via GitHub Actions
- Implement superclasses to generalize schema population and validation within parsers

Feb 2021 - **Software Engineer III**, *Assured Information Security*, Rome, NY

Aug 2021 ○ Stargate Program:

- Create Docker images and Kubernetes manifests
- Adapt Windows-based build scripts to build in Linux environments

Oct 2018 - **Software Engineer, Implementation Specialist**, *Booz Allen Hamilton*, Rome, NY

Feb 2021 ○ VIE / SWIFT Programs:

- Use Concourse, Sonarqube, Docker, Kubernetes, and Bash scripts to create CI/CD pipelines in accordance with DoD standards

Oct 2018 - **Software Engineer, Implementation Specialist**, *Lockheed Martin*, Liverpool, NY

Feb 2021 ○ SEWIP and Q-53 BEMA:

- Develop reusable analytics scripts using Matlab and Tensorflow for noise reduction and radio frequency modulation technique identification

Mar 2018 - **Software Engineer**, *Lockheed Martin*, Liverpool, NY

Sept 2018 ○ SEWIP and Q-53 BEMA:

- Develop reusable analytics scripts using Matlab and Tensorflow for noise reduction and radio frequency modulation technique identification

Jan 2016 - **Data Scientist, Junior**, *Booz Allen Hamilton*, Rome, NY

Mar 2018 ○ Active Insights:

- Design a data lake using an Apache Accumulo for data storage and OrientdDB for provenance tracking
- Develop Apache Nifi workflows and processors for ETL processes

Aug 2015 - **Graduate Assistant**, *SUNY Polytechnic*, Utica, NY

Jan 2016 ○ Finite Mathematics:

- Grade homework, hold office hours, and design personal grading scheme

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## Military Experience

- Apr 2012 - **MQ-9 Avionics Journeyman**, *New York State Air National Guard*, Syracuse, NY
- Apr 2018 ○ **174<sup>th</sup> Aircraft Maintenance Squadron**:
- Perform scheduled maintenance and troubleshoot issues with avionics systems on the MQ-9 Reaper
- Oct 2009 - **F-16 Avionics Journeyman**, *United States Air Force*, Luke AFB, AZ
- Apr 2012 ○ **756<sup>th</sup> Aircraft Maintenance Squadron - 310 Aircraft Maintenance Unit**:
- Perform scheduled maintenance and troubleshoot errors with avionics systems on F-16 fighter jets
  - Responsibilities include maintaining:
    - Flight Controls (FLCS)
    - Identify Friend or Foe (IFF)
    - Radar Warning Receiver (RWR)
    - Fire-control Radar (FCR)
    - Joint Helmet Mounted Cueing System (JHMCS)
    - and others

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## Education

- Aug. 2015 - **Master of Science in Computer Science**, *SUNY Polytechnic Institute*, Utica, NY,  
May 2019 GPA 3.64/4.00
- Dual focus in Mathematics and Software Engineering
  - Final Project - Open House Route Planner: A programmatic approach to finding a route to as many open houses on a given day. Inspired by a personal need when searching for a house.
- Aug. 2012 - **Bachelor of Science in Applied Mathematics**, *SUNY Oswego*, Oswego, NY  
May 2015

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## Technical Skills

Programming Languages PYTHON, JAVA, BASH, L<sup>A</sup>T<sub>E</sub>X, MATLAB, R, SQL, OCAML, TYPESCRIPT

Tools DOCKER, AWS, GITHUB ACTIONS, GIT, JIRA, CONFLUENCE, FLUTTER

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## Interests/Hobbies

- Gardening
- Gaming
- Cooking
- Reading
- Hiking in the Adirondacks