Alexander Jansing

Resume

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Relevant Experience

Aug 2021 - Aug 2023 **Data Engineer II**, *TetraScience*, Remote
- Data Pipelines Team:
  - Create new and improve upon existing API services to improve data discovery and speed of the platform
- Data Engineering Infrastructure:
  - Develop internal tools to accelerate the deployment process and enforce coding standards via GitHub Actions
  - Implement packages to programmatically create, populate, and validate schemas using pydantic
- Data Insights:
  - Perform exploratory research on laboratory equipment. This involved finding technical documents and occasionally contacting vendors
  - Implement schemas and parsers to ingest data from customer laboratory experiments
  - Work with customers via Zendesk and Microsoft DevOps

Feb 2021 - Aug 2021 **Software Engineer III**, *Assured Information Security*, Rome, NY
- Stargate Program:
  - Create Docker images and Kubernetes manifests
  - Adapt Windows-based legacy code to build in Linux environments

Oct 2018 - Feb 2021 **Software Engineer, Implementation Specialist**, *Booz Allen Hamilton*, Rome, NY
- VI2E:
  - Use a wide variety of tools to create and maintain CI/CD pipelines in accordance with DoD standards
  - Create pipelines to deliver data to secured environments using AWS Diode
  - Ensure data and code were vetted as to provide the Authority to Operate in secured environments

Mar 2018 - Sept 2018 **Software Engineer III**, *Lockheed Martin*, Liverpool, NY
- SEWIP and Q-53 BEMA:
  - Develop reusable analytics scripts using Matlab and Tensorflow for noise reduction and radio frequency modulation technique identification

Jan 2016 - Mar 2018 **Data Scientist, Junior**, *Booz Allen Hamilton*, Rome, NY
- Active Insights:
  - Design a datalake using an Apache Accumulo for data storage and OrientdDB for provenance tracking
  - Develop Apache Nifi workflows and processors for ETL processes

Aug 2015 - Jan 2016 **Graduate Assistant**, *SUNY Polytechnic*, Utica, NY
- Finite Mathematics:
  - Grade homework, hold office hours, and design personal grading scheme

Military Experience

Apr 2012 - Apr 2018
MQ-9 Avionics Journeyman, *New York State Air National Guard*, Syracuse, NY
- **174th** Aircraft Maintenance Squadron:
  - Perform scheduled maintenance and troubleshoot issues with avionics systems on the MQ-9 Reaper

Oct 2009 - Apr 2012
F-16 Avionics Journeyman, *United States Air Force*, Luke AFB, AZ
- **756th** 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

Education

Aug. 2015 - May 2019
Master of Science in Computer Science, *SUNY Polytechnic Institute*, Utica, NY, 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 - May 2015
Bachelor of Science in Applied Mathematics, *SUNY Oswego*, Oswego, NY

Technical Skills

Programming Languages   Python, Java, Bash, LaTeX, Matlab, R, SQL, OCaml, Typescript

Tools   Docker, AWS, GitHub Actions, Git, Jira, Confluence, Flutter

Interests/Hobbies

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