Alexander Jansing

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Highlights

- 4+ years in data science and software engineering industry
- Active DoD TS/SCI
- M.S. in Computer Science with a focus in Software Engineering and Mathematics
- B.S. in Applied Mathematics
- Operating Systems most comfortable with Linux, MacOS
- Proficient with Java, Python, Bash
- Comfortable with Matlab, R, LaTeX
- Familiar with HTML, CSS, Javascript, Scala, Groovy, OCaml
- Technologies comfortable with Git, Nifi, Hadoop, Spark, AWS, Maven, Docker, Docker-compose, ArgoCD, Kubernetes, MongoDB, Accumulo, Postgres, Jira, Confluence

Experience

- **Booz Allen Hamilton** — Rome, NY
  Software Engineer, Implementation Specialist — *Oct 2018 - Present*
  - **VI2E - Pipeline Delivery**: Using Concourse, Docker, ArgoCD, Kubernetes, Python, and Bash scripts to create CI/CD pipelines for the Air Force's VI2E program.
  - **Swift**: Used Concourse, Sonarqube, Docker, Python, and Bash scripts to create CI/CD pipelines for the United States Air Force Research Laboritory.
- **Lockheed Martin** — Liverpool, NY
  Software Engineer, Asc — *Mar 2018 - Sept 2018*
  - **SEWIP and Q-53 BEMA**: Developed analytics for noise reduction and identification of Modulation techniques using technologies like Matlab and Tensorflow.
- **Booz Allen Hamilton** — Rome, NY
  Data Scientist, Junior – Computer Science — *Jan 2016 - Mar 2018*
  - **Active Insights**: Designed a data lake based using an Accumulo backend and OrientdDB for provenance tracking. ETL processes were performed with Apache Nifi.
- **SUNY Polytechnic** — Utica, NY
  Graduate Assistant — *Aug 2015 - Jan 2016*
  - **Finite Mathematics**: Graded homework, held office hours, and designed grading schemes for Finite Mathematics.

Projects

- **Graduate School Final Project — Open House Route Planner**: A project that allows the user to provide a series of calendar events and returns several routes one could take to visit as many open houses as possible. Project was written in Python, uses the *Esri API* for geocoding and route finding, *MongoDB* for caching of locations, and *Docker-compose* for infrastructure. Idea originally worked on during hack Upstate (see Projects section).
- **Hack Upstate XI — Open House Route Planner***: Javascript, Docker, MongoDB, Esri API — *Grand Prize* and *Esri API Prize*
  A minimum viable product for a hackathon that took lat-long locations and found the optimal route to visit all points using the Esri API. Project was primarily written in Javascript, uses the *Esri API* for geocoding and route finding, and *Docker-compose* for infrastructure. Time-boxing of open houses and travel times were touched upon, but not fully implemented.

  * No code survived between hackathon and graduate school.
- **Hack Mohawk Valley — Move Helper**: HTML, CSS, Javascript, MongoDB — *Best Use of Open Data*
  An app to help you get the info you need to move into a new area. Data returned includes sources from Syracuse Open Data crime, lead, and code violations.
- **Hack Upstate X — Buffalo Crime Data**: Python, MongoDB — *Best Use of Open Data*
  Hackathon project to discover crimes that occurred a specified distance away from police cameras and plotten them to show clusters of crimes in the city of Buffalo.

Publications

- **Medium** — *April 2020 - Present*
  - **Writing a Custom Concourse Resource (Four Parts)**:
    1. — Overview
    2. — the `check`
    3. — the `in`
    4. — the `out`

Education

- **SUNY Polytechnic Institute** Utica, NY
  Master of Science in Computer Science; GPA: 3.64 *Aug. 2015 – May. 2019*
  - **Final Project: Open House Route Planner**: See Projects Section.
  - **Relevant Classwork**: Quantum Computing, AI Topic: Data Science, Machine Learning, Formal Methods, Big Data Platforms, Numerical Diff Equations
- **SUNY Oswego** Oswego, NY
  Bachelor of Science in Applied Mathematis *Aug. 2012 – May. 2015*

Programming Skills

- **Languages**: Java, Python, Matlab, R, Scala, Groovy, OCaml, Bash, LaTeX, HTML, CSS, Javascript
- **Technologies**: Git, Nifi, Hadoop, Spark, AWS, Maven, Docker, Docker-compose, MongoDB, Accumulo, Postgres, OrientDB, TitanDB, Jira, Confluence
- **Operating Systems**: Linux, MacOS