

Alex James Thoden

5800 Inman Park Cir # 410, Rockville, MD 20852 — 571-512-2288 — alexhokietho@gmail.com

Top Secret/SCI Clearance

EDUCATION

Georgia Institute of Technology

May 2026 (Intended)

M.S. Data Analytics

Virginia Polytechnic Institute and State University

May 2022

B.S. Materials Science and Engineering

SKILLS

Technical: Proficient in data manipulation, modeling, and visualization using industry standard analysis tools. Experienced creating web apps to provide efficient data exploration and presentation. Familiar with machine learning model validation metrics/techniques. Notable technologies include: **Python, Polars, Dash, Flask, Tableau, R, ggplot, Shiny, SQL, GitLab, AWS, CSS, JavaScript, D3**

Interpersonal: Excellent ability to structure complex ideas into digestible briefings for non-technical audiences and communicate/collaborate with teammates.

Research: Constantly learning new packages and tools to increase capability and efficiency in workflows. Passionate about learning new things and being challenged.

EXPERIENCE

Senior Associate System Engineer, Peraton

September 2024 – Present

- Developed a simulation app for quick “what-if” analysis of customer data flows designed to assist in risk and readiness assessments.
- Spearheaded flagship project to forecast customer scaling requirements, enhancing accuracy and driving agile strategic decision-making.
- Led a team to enhance the frequency and scope of project deliveries, increasing efficiency and project impact.
- Directed analysis forecasting across diverse probability distributions, significantly enhancing predictive accuracy.
- Formulated ETLs and data connections to automate customers’ interaction with insights.

Systems Engineer I, Peraton

August 2022 – Present

- Developed and maintained CI/CD runners for cross-domain pipelines to enable workflow in the AI/ML platform across protected networks.
- Provided systems engineering support in the successful transition of an AI/ML platform into the NSG.
- Increased Maven Program Office efficiency by instituting the inaugural Maven Engineering Review Board to improve the quality of customer products.

PROJECTS

Wedding website: Built from scratch with native RSVP functionality linked to a personal dashboard for guest attendance visualization.

Built with: React, TypeScript, Tailwind CSS

Seating Chart Optimization Algorithm: Designed to find near-global maximum seating orientation with a large number of guests using simulated annealing and genetic algorithms; includes interactive elements for users to define guest relationships.

Built with: Python, React, TypeScript, Tailwind CSS
