

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 M.S. Data Analytics	May 2026 (Intended)
Virginia Polytechnic Institute and State University B.S. Materials Science and Engineering	May 2022

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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
