AMIN BAABOL

Security Data Architect | Data Platform Engineer

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PROFESSIONAL SUMMARY

Security Data Architect with 5+ years building enterprise data platforms, automated compliance pipelines, and AI-powered analytics for Fortune 500 organizations. Proven expertise in multi-cloud infrastructure (AWS/Azure/Snowflake), asset visibility at scale, and ATO governance automation. AWS Certified Solutions Architect seeking consulting engagements in data security engineering and platform modernization.

TECHNICAL SKILLS

Languages	Python, R, SQL, Scala, JavaScript, PowerShell, Bash
Cloud & Data	AWS (EC2, S3, Lambda, Glue, Redshift, IAM), Azure, GCP, Snowflake, Databricks, Apache Spark, Kafka, Airflow, dbt
Security & Assets	Axonius, CMDB Reconciliation, CrowdStrike, Tenable, Qualys, Cisco, Palo Alto, Okta, Active Directory
AI & Analytics	Custom LLM/RAG Agents, Predictive ML, Scikit-learn, TensorFlow, Tableau, Power BI
Automation & Tools	Power Apps, Power Automate, Jira, ServiceNow, ATO Workflow Automation, Terraform, Docker, CI/CD
Infrastructure	Networking, Systems Administration, Linux, Git, Jenkins, REST APIs, Agile/Scrum

PROFESSIONAL EXPERIENCE

Technical Lead (Founding Team)   *Jan 2026 – Present*
XcesDNA | Remote

- Architect the foundational cloud infrastructure and data security strategy for an early-stage health tech DNA testing startup
- Define technical specifications and evaluate technology stacks to ensure scalable, secure handling of sensitive genomic data
- Serve as primary decision-maker for enterprise architecture, aligning the core business model with the technical roadmap

Program Lead, Cyber Asset Intelligence   *Apr 2024 – Present*
Solventum (formerly 3M Health Information Systems) – Cyber Metrics & Reporting, GRC | Remote

- Lead the Cyber Asset Intelligence program under GRC, developing data strategies to monitor and mitigate enterprise risk across complex multi-cloud infrastructure
- Architect Axonius-driven discovery and reconciliation pipelines across 9+ infrastructure domains—including AWS, Azure, GCP, CrowdStrike, Tenable, Qualys, Cisco, Palo Alto, and Active Directory/Okta—to resolve critical CMDB blind spots and achieve full asset visibility
- Design and deploy autonomous ATO evidence-collection workflows using Power Apps, Power Automate, SharePoint, and Jira, streamlining pre-production security control assessments and reducing manual overhead
- Engineer a custom LLM/RAG Copilot agent bridging Axonius and core data pipelines, enabling business teams to query security telemetry using natural language
- Maintain enterprise data pipelines across AWS, Azure, and Snowflake while administering Tableau servers and deploying predictive ML models for executive-level risk reporting
- Regularly present at company-wide sessions on AI strategy, enterprise architecture, and emerging data platform capabilities

Data Engineer   *Sep 2021 – Apr 2024*
3M | Remote

- Designed production data pipelines informing security risk posture for Health Information Systems, processing large-scale datasets for analytics, risk scoring, and compliance reporting
- Built and managed data pipelines to discover and inventory assets across infrastructure domains and security tools, producing hygiene reports on endpoints, network devices, and identity systems
- Established data platform best practices including CI/CD integration, infrastructure-as-code, and migration of legacy systems to cloud-native architectures

Risk Analytics Intern   *May 2021 – Sep 2021*
3M
- Developed quantitative risk models and analytics dashboards supporting enterprise risk management, applying statistical analysis to identify patterns in large-scale security datasets

Graduate Research – Data Science   *Aug 2019 – May 2021*
South Dakota State University | South Dakota
- Built ML classification models and recommendation engines using Python, applying predictive modeling to real-world datasets including banking marketing campaigns and agricultural optimization

Mechanical Engineer   *Jun 2018 – Aug 2019*
Harris Corporation (now L3Harris Technologies) | Melbourne, FL
- Led technical analyses including design optimization studies and thermal data modeling on complex aerospace systems, streamlining material selection to reduce department overhead costs

EDUCATION

Master of Science, Data Science   *2019 – 2021*
South Dakota State University | Specialization: Machine Learning | Dean's List 2020–2021

Bachelor of Science, Mechanical Engineering   *2016 – 2018*
University of North Dakota | Emphasis: Aerospace | ASME & ASCE

CERTIFICATIONS & CREDENTIALS

- **AWS Certified Solutions Architect – Associate** | Amazon Web Services
- **Introduction to Back-End Development** | Meta

HONORS & FELLOWSHIPS

- **DS4A Fellow** | Correlation One (Mar 2021) – Selected among the top 5% of 24,000 applicants
- **Kaggle BIPOC Grant Program Fellow** | Kaggle (Mar 2021)