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# Education

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| **Stephen F. Austin State University** | Nacogdoches, TX |
| *Bachelor of Science in Environmental Science* | *Dec. 2002* |

# Experience

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| **RegScale, Inc.** | Knoxville, TN |
| *Data Engineer* | *Jul 2022–Present* |

* + **Python Development**: Principal Developer for the RegScale CLI. Led the design and development of core features for this data integration tool, which integrates with over 40 cybersecurity-related services and file-formats.
  + **CLI Integrations**: Spearheaded a successful effort to build official integrations for Tenable and Wiz. These integrations allow users to import their data directly into RegScale.
  + **C# Development**: Implemented REST API’s and document generation services for OSCAL-compliant XML, FedRAMP, and other formats for the RegScale platform.

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| **Shell Energy** | Maryville, TN (Remote) |
| *Data Engineer* | *Jul 2021–Jul 2022* |

* + **Airflow pipelines**: Built and maintained pipelines from vendor SQL Server databases to Amazon S3 for user consumption with Dremio and other tools.
  + **Data Migration**: Wrote the migration code for an Intelometry Retail system (SQL Server based) to an Exelergy RevenueManager data migration using Python, Pytest (Test-Driven Development), SQLAlchemy, Docker, and SQL Server stored procedures/functions.

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| **Oak Ridge National Laboratory** | Oak Ridge, TN |
| *Data Engineer* | *Oct 2018–Jul 2021* |

* + **Data Collection**: Built and maintained pipelines for ingesting millions of JSON documents from multiple sources into an Elasticsearch cluster using Java’s Spring Framework and Airflow
  + **ActiveMQ JMS**: Apache ActiveMQ is an open source message broker primarily used for sending messages between applications. Worked on writing message clients for an application centered around JMS messaging.
  + **PostgreSQL**: PostgreSQL is an advanced open source database with a strong reputation for proven reliability and a proven architecture. I utilize the excellent JSON features as well as PostGIS for storing geographic features and message data from the JMS.

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| **Covenant Transport** | Chattanooga, TN |
| *SAP Developer* | *Jan 2014–April 2018* |

* + **SAP Design Studio**: Designed focused universes and interactive BI dashboards using SAP Information Design Tool and Design Studio.
  + **Apache Airflow**: Used Airflow to extract data from Excel docs with the help of Python Pandas and to integrate this data with parallel Data Services jobs
  + **Data Warehousing**: Setup, schema design and management of Data Marts with SQL Server. SAP Data Services integration for daily ETL ingestion into SQL Server.
  + **Python Flask**: Wrote Restful API’s using Python’s Flask framework detailing ETL job metrics. Airflow eventually replaced this setup.

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| **City of Chattanooga** | Chattanooga, TN |
| *Programmer* | *2013* |

* + **Java**: Re-wrote existing VB6 programs into more maintainable Java code, migrated code repo from Visual SourceSafe to a modern Git repository.

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| **Freese and Nichols** | Fort Worth, TX |
| *GIS Developer* | *Jan 2005–April 2013* |

* + **ESRI ArcGIS**: Provided GIS enterprise database (SDE) development and analysis including thematic map creation, data conversion, image rectification and temporal/3D animation.
  + **Python ArcPy and ArcObjects**: Developed ArcGIS toolboxes, python scripts, ArcObjects tools, and ESRI geoprocessing models for common GIS and SDE workflows.
  + **C and SQL Server**: Wrote SQL queries, customized stored procedures and assisted in creation of a .NET/SQL database front-end for the Houston-Galveston Subsidence District’s 70-year population and water demand projections.

# Programming Skills

**Languages**: Python, Java, Kotlin, GoLang, C, SQL

**Technologies**: JMS, Flask, Airflow, Vagrant, Docker