

Peyton Pope

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OVERVIEW

Senior Computer Science student at Liberty University with hands-on experience building data pipelines, databases, and enterprise web applications in both global corporate and mission-driven nonprofit settings. Interested in applying skills in data modeling, visualization, and machine learning to free organizational time and effort for what matters.

EDUCATION

Bachelor of Science in Computer Science

Liberty University

May 2027 (Expected)

Lynchburg, VA

- Concentration in Data Science; GPA: 3.81

RELEVANT EXPERIENCE

Applications, AI & ML Intern

TMEIC Corporation Americas

Summer 2026

Roanoke, VA

- Architected a scheduled Python ETL pipeline that parsed 10+ years of engineering specification data across 250+ projects
- Modeled a normalized SQL Server database to load using SQLAlchemy and idempotent staging-to-production procedures
- Prototyped an enterprise application with a React (Vite) and a RESTful .NET API (C#) with Entity Framework Core
- Redesigned a config-driven Python pipeline that transforms 1,000+ column solar-plant SCADA historian exports into clean, standardized time-series data for downstream ML model development

Software Development Intern

Pioneer Bible Translators

Summer 2025

Dallas, TX

- Contributed the agile development of a Phoenix application serving 500+ global partners by tracking counselor interactions
- Collaborated on front-end design features using HEEEx and Tailwind CSS
- Implemented new schema designs with Ecto and performed database migrations using PostgreSQL
- Presented technical updates and UI/UX decisions to non-technical stakeholders client feedback meetings

TECHNICAL SKILLS

Languages: Python, SQL, C++, JavaScript/TypeScript, R

Tools: Git, React, .NET Core, REST APIs, dbt Core, Phoenix, Streamlit, scikit-learn, Pandas

Platforms: SQL Server (SSMS/SSIS), Databricks, PostgreSQL, Docker, KNIME

Competencies: ETL/ELT, Dimensional Modeling, Medallion Architecture, Agile Development

LEADERSHIP & ACTIVITIES

Capstone Developer

Genworth Financial (Senior Capstone)

Aug 2026 – Present

Liberty University

- Leading team as primary liaison with Genworth stakeholders managing a 2-semester software project
- Prototyping a cloud LLM-powered internal synthetic dataset generator

Junior Analyst, Quantitative Research Group

Student Asset Management Fund

Aug 2026 – Present

Liberty University

- Contributing as a backend specialist for an ML model providing sector grades for over \$400,000 in assets
- Designing a automation pipeline for a dashboard

Computer Science Tutor

College of Applied Studies & Academic Success

Dec 2024 – May 2026

Liberty University

- Conducted 200+ one-on-one appointments on advanced programming concepts such as C++, DSA, and OOP
- Earned Tutor of the Month award (March 2025)

Resident Shepherd

Office of Spiritual Development

Mar 2024 – May 2026

Liberty University

- Interviewed 30+ students to create a leadership team with aim of cultivating community through events and small groups
- Managed event logistics and medical documentation; Completed LivingWorks safeTALK Suicide Alertness training