

SHIKHAR SUBEDI

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📍 Granbury, TX 76048

PROFESSIONAL SUMMARY

Results-driven Full-Stack Software Engineer (Ruby on Rails / .NET) with 6+ years of experience in designing and maintaining complex web and desktop applications. Proficient in Ruby on Rails, .NET, and SQL, with expertise in environmental model integration using APEX, SWAT, and WASP. Skilled in modernizing legacy systems, building scalable user interfaces, and managing relational databases to deliver reliable data-driven solutions.

SKILLS

- Programming & Frameworks: Ruby on Rails, JavaScript (ES6), Python, Visual Basic .NET, C#, R, CoffeeScript, jQuery
- Databases & Data: SQL, MySQL, SQLite, Microsoft Access, Data validation & migration
- Web Technologies: HTML5, CSS3, RESTful APIs

EDUCATION

Tarleton State University
Stephenville, TX • 05/2021

Bachelor of Science: Computer Information Systems

- Graduated: May 2021
- GPA: 3.4

WORK HISTORY

Texas Institute of Applied Environmental Research (TIAER) - Software Engineer (IT Professional I)

Stephenville, TX • 08/2021 - Current

- Architected and maintained scalable backend services using Ruby on Rails and AWS infrastructure, supporting high-traffic environmental modeling applications and automated server workflows.
- Designed and integrated RESTful APIs and server logic, streamlining data exchange between front-end interfaces, relational databases, and complex simulation engines (APEX, SWAT, WASP).
- Managed relational database architecture across MySQL, SQLite, and SQL Server, performing complex schema migrations, data validations, and query optimizations to ensure data integrity.
- Modernized legacy monoliths into responsive, full-stack applications, implementing robust MVC architectures, role-based access control, and session management.
- Engineered automated PDF/Excel report generation and XML processing pipelines, allowing seamless upload/download workflows for large-scale watershed and economic modeling datasets.

Texas Institute of Applied Environmental Research (TIAER) - Website Developer Intern

Stephenville, TX • 10/2017 - 05/2021

- Developed and maintained front-end interfaces with a focus on usability and accessibility.
- Produced clean, maintainable, and validation-ready code for research-driven applications.
- Created automated and exploratory tests using RSpec and Selenium to ensure application quality.
- Supported Linux-based development workflows using Ubuntu as the primary OS.
- Collaborated closely with researchers to translate scientific requirements into functional software features.