

SHIKHAR SUBEDI

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 6+ years of experience architecting scalable web applications, RESTful APIs, and complex data pipelines. Specializing in Ruby on Rails, C#/.NET, and AWS infrastructure, with a proven track record of modernizing legacy systems and optimizing relational databases for high-volume data ingestion.

SKILLS

Languages & Frameworks: Ruby on Rails, C#, .NET, Ruby, JavaScript (ES6), Python, RESTful APIs, HTML5, CSS3

Databases & Data: SQL, MySQL, SQL Server, SQLite, Schema Migration, Data Validation & Ingestion

Cloud & Infrastructure: AWS, Linux (Ubuntu), Git, MVC Architecture, Role-Based Access Control (RBAC)

Testing & Tools: RSpec, Selenium, Automated Testing, Postman

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) - Tarleton State University - Software Engineer
Stephenville, TX • 08/2021 - Current

- Architected and maintained scalable backend services utilizing Ruby on Rails, C#/.NET, and AWS infrastructure, supporting high-traffic environmental modeling applications and reducing system downtime by 15%.
- Designed and integrated RESTful APIs to streamline data exchange between front-end interfaces, relational databases, and complex simulation engines (APEX, SWAT, WASP).
- Managed relational database architecture across SQL Server, MySQL, and SQLite, executing complex schema migrations and query optimizations that improved data retrieval speeds by 25%.
- Modernized legacy monolithic systems into responsive, full-stack applications by implementing robust MVC architectures, role-based access control (RBAC), and secure session management.
- Engineered automated data ingestion pipelines and PDF/Excel/XML report generation workflows, efficiently processing 50GB+ of daily simulation data for large-scale watershed and economic modeling.

Texas Institute of Applied Environmental Research (TIAER) - Tarleton State University - Website Developer Intern
Stephenville, TX • 10/2017 - 05/2021

- Built and maintained comprehensive automated test suites using **RSpec** and **Selenium**, significantly improving application reliability and reducing post-deployment bugs.
- Developed responsive, accessible front-end interfaces, collaborating directly with scientific researchers to translate complex environmental requirements into functional software features.
- Produced clean, maintainable, and validation-ready code while managing and supporting Linux-based (Ubuntu) development and deployment workflows.