



---

# TECHTAN Course Brochure

2024



## MISSION AND VISION

### Mission

Empowering individuals with tailored tech education in a sophisticated environment. We foster excellence, integrity, and empowerment, guiding learners to thrive in the digital era with personalized attention and industry expertise.

### Vision

To be the premier destination for classy tech education, inspiring lifelong learners to unlock their full potential and lead with confidence in the ever-evolving world of technology.

## CORE VALUES

We uphold the highest standards of integrity, transparency, and ethical conduct in all our interactions, building trust with our clients, partners, and community through honesty, accountability, and respect.

We foster a culture of collaboration, teamwork, and inclusivity, valuing diverse perspectives and leveraging collective strengths to drive innovation, foster creativity, and achieve shared goals in the tech community.

We strive for excellence in tech education, delivering high-quality programs and services that exceed expectations, foster innovation, and empower individuals to achieve their goals in the digital realm.

We believe in the power of education to empower individuals and transform lives. We empower learners to unlock their full potential, embrace lifelong learning, and thrive in the digital age.

“

Embrace the elegance of luxury,  
and the power of perpetual  
learning in tech. In our journey,  
we fuse opulence with expertise,  
crafting a legacy where  
innovation meets refinement.

SEGUN

# Backend Web Development

---

## 1: Introduction to Backend Development

- Understanding the role of backend in web development
- Overview of server-side programming languages (e.g., Node.js, Python, Ruby)
- Setting up development environment and tools

## 2: Database Fundamentals

- introduction to databases (SQL and NoSQL)
- Database design principles
- CRUD operations and data manipulation

## 3: Building RESTful APIs

- Understanding REST architecture
- Creating RESTful routes and endpoints
- Handling HTTP requests and responses

## 4: Authentication and Authorization

- Implementing user authentication and authorization
- Using JSON Web Tokens (JWT) for token-based authentication
- Securing APIs and routes

## 5: Working with Frameworks (e.g., Express.js, Django)

- Introduction to popular backend frameworks
- Building web applications using frameworks
- Middleware and routing in frameworks

## 6: Asynchronous Programming and Concurrency

- Understanding asynchronous programming concepts

- Working with callbacks, promises, and async/await
- Managing concurrency and parallelism in backend applications

## 7: Testing and Debugging

- Writing unit tests and integration tests
- Debugging techniques for backend applications
- Test-driven development (TDD) approach

## 8: Deployment and Scalability

- Deploying backend applications to cloud platforms (e.g., Heroku, AWS)
- Performance optimization and scalability considerations
- Monitoring and maintaining backend infrastructure





---

# About us

At Techtan, we understand that the digital landscape is ever-evolving, and navigating it can be daunting. That's why we've created a tech hub designed to empower individuals with the skills and knowledge needed to thrive in today's digital era. We provide top-notch tech education in a clean, calm, and classy atmosphere. We believe that learning should be an enriching experience, which is why we've curated a team of expert instructors who are passionate about sharing their knowledge and guiding learners through their tech journey with personalized attention and support.

## ADDRESS

No. 7 Umuechem Street, D/Line, Off Olu-Obasanjo Bypass, behind Energymatic Filling Station, Port Harcourt, Nigeria, 500261