

Security and Best Practices

Data Protection

- Input validation & sanitization
- Password hashing (bcrypt)
- Environment variables
- HTTPS/SSL encryption

System Security

- Role-based access control
- Session management
- CORS configuration
- SQL injection prevention

Monitoring

- Admin activity logging
- Payment verification
- Error tracking
- Performance monitoring

Backup & Recovery

- Automated daily backups
- Version control (Git)
- Database redundancy
- Disaster recovery plan

Learning Outcomes



Technical Skills Gained

Frontend Mastery

- Advanced React.js patterns
- Next.js SSR/SSG
- TypeScript integration
- Responsive design

Backend Expertise

- RESTful API design
- Database optimization
- Server security
- Performance tuning

DevOps & Deployment

- Cloud services (AWS)
- CI/CD practices
- Production deployment
- Performance monitoring

Professional Skills

- Project management
- Problem-solving
- Technical documentation
- Team collaboration