

APPLIED FULL-STACK SOFTWARE ENGINEERING

FRONTEND, BACKEND, APIS & CLOUD DEPLOYMENT

AI Era Job Ready Skills

Applied Full-Stack Software Engineering is a 24-week intensive program that trains students to design, build, and deploy complete web applications. Students master HTML/CSS, JavaScript, React, Node.js, RESTful APIs, databases (SQL and NoSQL), and cloud deployment. The program emphasizes agile development, version control, and DevOps practices, preparing graduates for Full-Stack Developer, Frontend Engineer, and Backend Developer roles.

"Build and deploy full-stack web applications from frontend to cloud"

24 WEEKS

DURATION

288

CONTACT HOURS

11.5

CREDIT HOURS

\$7,200.00

TOTAL PROGRAM COST

2+

CERTIFICATIONS

TWC Licensed

#S6776

WIOA Approved

Funding Available

Monthly Intakes

Enroll Anytime

DURATION: 24 Weeks

TUITION: \$7,200.00

NEXT COHORT: Monthly Intakes

PROGRAM HIGHLIGHTS

- ✓ Live Instructor-Led Training
- ✓ Hands-on Labs & Portfolio Projects
- ✓ Career Support Services
- ✓ Industry Certification Prep (2 Vouchers)
- ✓ WIOA Funding Available
- ✓ TWC Licensed (#S6776)

CAREER PATHWAYS

- Full-Stack Developer
- Frontend Engineer
- Backend Developer
- Software Engineer
- API Developer
- Cloud Application Developer

WORK ENVIRONMENTS

Tech Startups

Software Companies

Financial Services

E-Commerce

Media & Entertainment

Government Tech

LATEST TOOLS & TECHNOLOGIES (2025–2026)

React

Node.js

TypeScript

PostgreSQL

MongoDB

Docker

AWS

GitHub

REST APIs

GraphQL

Next.js

ADMISSIONS REQUIREMENTS

- High school diploma or GED required
- Basic computer skills required
- No prior programming experience required
- Background check required prior to enrollment

PROGRAM OUTCOMES & EARNING POTENTIAL

✓ Job Placement Support

Career coaching & resume prep

✓ Real-World Projects

Live client project experience

✓ Industry Certifications

2+ globally recognized certs

✓ Flexible Schedule

6 cohort options per week

✓ WIOA Eligible

100% tuition coverage available

✓ TWC Licensed

Texas Workforce Commission #S6776

• TWC Licensed #S6776 • WIOA Approved • Monthly Intakes • 100% Hands-On • Job Placement Support •

WEB FOUNDATIONS TRACK

FullStk 101 Web Development Fundamentals

Weeks 1–2 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Hr...

- Build foundational websites using HTML5, CSS3, and Java...
- Apply responsive web design principles for mobile-first deve...
- Understand the Document Object Model (DOM) for dynamic...

Tools: *HTML, CSS, JavaScript, VS Code*

FullStk 102 Front-End Development with ReactJS

Weeks 3–4 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Hr...

- Develop interactive, component-driven web applications usi...
- Manage state using React hooks and Context API.
- Implement routing, form validation, and data handling in SPAs.

Tools: *ReactJS, NodeJS, GitHub*

FRONTEND DEVELOPMENT TRACK

FullStk 103 Backend Development with Python

Weeks 5–6 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Hr...

- Create scalable APIs using Python frameworks such as Fla...
- Integrate server-side logic with relational databases.
- Implement security measures like JWT authentication.

Tools: *Flask, FastAPI, SQLAlchemy*

FullStk 104 Databases and ORM Integration

Weeks 7–8 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total Hr...

- Design and query relational databases (PostgreSQL/MySQL).
- Perform CRUD operations through ORM (Object Relational ...
- Implement database migrations and versioning strategies.

Tools: *PostgreSQL, Alembic, SQLAlchemy*

CURRICULUM HIGHLIGHTS

✓ Hands-On Labs

Every module includes real cloud lab exercises

✓ Industry Tools

Learn with the same tools used by top employe

✓ Live Instruction

Expert-led sessions, online and in-person

✓ Project-Based

Build portfolio-ready projects each week

✓ Certification Prep

Included exam vouchers for 2+ certifications

✓ Career Support

Resume, LinkedIn, and interview coaching

- Live Instructor-Led
- Real-World Projects
- Industry Certifications
- WIOA Approved
- Job Placement Support

BACKEND & APIS TRACK

FullStk 105 API Development & Integration

Weeks 9–10 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total H...

- Build RESTful APIs and GraphQL APIs for real-world applic...
- Apply API security, pagination, rate limiting, and error handling.
- Integrate third-party APIs (Stripe, Google Maps, Twilio).

Tools: FastAPI, Postman, GraphQL

FullStk 106 DevOps and Cloud Deployment

Weeks 11–12 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total ...

- Containerize applications with Docker.
- Build and automate CI/CD pipelines for deployment.
- Deploy full-stack apps across AWS, Azure, and GCP.

Tools: Docker, AWS Elastic Beanstalk, GitHub Actions

CLOUD & CAPSTONE TRACK

FullStk 107 Microservices Architecture

Weeks 13–14 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total ...

- Break monolithic apps into microservices.
- Set up service discovery, load balancing, and asynchronous...
- Implement event-driven architecture using messaging systems.

Tools: Kubernetes Basics, RabbitMQ, Redis Pub/Sub

FullStk 108 C++ or Rust Fundamentals

Weeks 15–16 | Lec 6 Hrs / Lab 18 Hrs / Ext 0 Hrs | 24 Total ...

- Learn systems programming concepts like memory manage...
- Build basic backend modules or system utilities in C++ or Rust.
- Integrate compiled modules with web backend frameworks.

Tools: C++ (GCC/Clang) or Rust (Cargo)

CURRICULUM HIGHLIGHTS

✓ Hands-On Labs

Real cloud lab exercises in every module

✓ Industry Tools

Same tools used by top employers

✓ Live Instruction

Expert-led sessions, online and in-person

✓ Project-Based

Portfolio-ready projects each week

✓ Certification Prep

Included exam vouchers for industry certs

✓ Career Support

Resume, LinkedIn, and interview coaching

WIOA APPROVED PROGRAM

Zero-Cost AI & Cloud Training JOB-READY SKILLS FOR THE AI ERA

100% Tuition Coverage for WIOA-eligible residents of Texas & Louisiana.

(More states coming soon!)

Not WIOA eligible? Ask about flexible 7–36 months financing or one-time payment discounts.

TWC Licensed (#S6776)

Live (Online/In-Person)

Real-World Projects

Industry Certified



John Enoh (MSc)
AI GOVERNANCE LEAD &
CHIEF AI ARCHITECT

- Authority: Microsoft MVP | Engineering Hiring Manager
- Global Footprint: Microsoft & IBM (Principal Architect)
- Elite Education: MIT (AI Modeling), Stanford (Strategy)



Dr. Paul Idowu (PhD)
RESEARCH AUTHORITY &
FACULTY LEAD

- Authority: PhD in AI Systems | 390+ Google Scholar Citations
- Elite Academic Pedigree: PhD Pattern Recognition & AI
- Technical Domain: NLP for 130+ African Languages



Devonte Sykes (MSc)
DIGITAL
TRANSFORMATION

- Authority: Senior Cloud Architect @ Microsoft
- Elite Academic Pedigree: MSc Information Technology (UCF)
- Technical Domain: Azure IaaS/PaaS, Cloud Migration



Abiodun Olatunji, MBA
ENTERPRISE STRATEGIST
& CLOUD AUTHORITY

- Authority: Senior Specialist, Cloud & AI @ Microsoft
- Elite Academic Pedigree: MSc Information Systems, MBA
- Technical Domain: Azure Synapse, Databricks, Big Data



Taiwo Olatunde (MSc)
DATA ARCHITECTURE &
ENGINEERING LEAD

- Authority: Microsoft Fabric Expert | Technical Lead
- Elite Academic Pedigree: MSc Business Analytics (UNT)
- Technical Domain: Microsoft Fabric, ETL/ELT Pipelines



Syed Ishaq Ali, MBA
BI STRATEGIST &
FINANCIAL ANALYTICS

- Authority: 15-Year Financial Sector Veteran | PMP®
- Global Footprint: Bank of Montreal (BMO), Scotiabank
- Technical Domain: Financial Forecasting, SQL, Power BI



Vaishali Singh
AI & MACHINE LEARNING
SPECIALIST

- Authority: Lead AI Engineer
- Technical Domain: Deep Learning, Computer Vision
- Global Footprint: Fortune 500 Tech Companies



Dr. Ibrahim Olokodana
DATA SCIENCE &
ANALYTICS EXPERT

- Authority: PhD in Data Science
- Technical Domain: Predictive Modeling, Statistical Analysis
- Elite Academic Pedigree: Advanced Research in ML



Abdullahi Olapojoye
CLOUD INFRASTRUCTURE
ARCHITECT

- Authority: Senior Cloud Engineer
- Technical Domain: AWS, GCP, Kubernetes, Terraform
- Global Footprint: Enterprise Cloud Migrations



Mackay Ogunleye
CYBERSECURITY &
COMPLIANCE LEAD

- Authority: CISSP, CISM Certified Expert
- Technical Domain: Network Security, Threat Intelligence
- Global Footprint: Global Financial Institutions



Sai Sudha Malluru
SOFTWARE ENGINEERING
& DEVOPS

- Authority: Principal Software Engineer
- Technical Domain: CI/CD, Microservices, Agile
- Global Footprint: Leading Tech Startups



Solomon Adegboye
FULL STACK
DEVELOPMENT LEAD

- Authority: Senior Full Stack Developer
- Technical Domain: React, Node.js, System Design
- Global Footprint: E-commerce & SaaS Platforms

WORK WITH NVIT BUILDERS



Real-World Projects: This training is 100% hands-on. You will work directly with NVIT builders who support clients across North America. Gain experience on live projects, solving actual business challenges — not just theoretical exercises.

CERTIFICATIONS & VOUCHERS

NVIT Certificate + 2 Industry Certifications (Vouchers Included)

Graduates receive the NVIT Certificate of Completion plus Exam Vouchers to write and pass globally recognized certifications from this list:

- AWS Certified Developer – Associate
- Microsoft Certified: Azure Developer Associate (AZ-204)
- Google Associate Cloud Engineer
- MongoDB Certified Developer Associate
- Meta Front-End Developer Professional Certificate
- Meta Back-End Developer Professional Certificate

STANDALONE FEE BREAKDOWN

1. Instructional Tuition	\$6,170.00	
2. Registration Fee	\$50.00	<i>(One-time, non-refundable)</i>
3. Books & Supplies	\$500.00	<i>(Cloud labs, software, e-books)</i>
4. Background Check	\$150.00	<i>(Security clearance processing)</i>
5. Professional Exam Vouchers	\$330.00	<i>(2 Vouchers Included)</i>
TOTAL PROGRAM INVESTMENT	\$7,200.00	

2026–2027 COHORT SCHEDULE

Cohort Name	Days	Time	Format
Alpha / Nova / Forge	Mon – Wed	9:30 AM – 12:30 PM	Morning Session
Helix / Array / Delta	Mon – Wed	1:30 PM – 4:30 PM	Afternoon Session
Photon / Pipeline / Fabric	Mon – Wed	6:00 PM – 9:00 PM	Evening Session
Beta / Snow / Grid	Thu – Sat	9:00 AM – 12:30 PM	Weekend Morning
Cloud / Lambda / Sigma	Thu – Sat	1:30 PM – 4:30 PM	Weekend Afternoon
Nebula / Data / Voyager	Thu – Sat	6:00 PM – 9:00 PM	Weekend Evening

ADMISSIONS & NEXT STEPS

Ready to Apply? Contact our admissions team to secure your spot in the next cohort.
learn.nvit.tech | www.nvit.tech | Mobile: +1 (214) 764-7360

info@nvit.tech
+1 (214) 407-7229