IntraEdge TECHNOLOGY | PEOPLE ARE THE PLATFORM

First 6-Weeks Internship Program

Program Snapshot

- **Duration:** 6 Weeks (30 Working Days)
- **Daily Time:** 5–6 Hours
- **Mode:** Onsite / Hybrid / Remote
- **Outcome:** Industry project + Deployment + Job readiness

Week 1 – IT Industry Foundations & Tools

Topics

- IT industry overview (Product vs Service)
- SDLC & Agile (Scrum, Sprint, Jira)
- Roles in IT teams
- Git, GitHub, Linux basics
- Networking fundamentals (DNS, HTTP/HTTPS)

Hands-On

- Git workflows
- Jira tasks
- Linux commands

Deliverables

- GitHub repo
- Tool setup verification

Week 2 – Programming & Backend Development

Stacks (choose one)

- Java + Spring Boot
- Python + Django/Flask
- Node.js + Express

Topics

- Clean code & best practices
- REST APIs
- Exception handling
- SQL & database design

Hands-On

- CRUD APIs
- DB integration
- API testing (Postman)

Deliverables

- Backend service repo

Week 3 – Frontend & Full-Stack Integration

Topics

- HTML, CSS, JavaScript (ES6)
- React / Angular / Vue
- API integration
- Authentication (JWT)

Hands-On

- UI + backend integration
- Login & role-based access

Deliverables

- Full-stack mini app

Week 4 – Advanced Engineering & Quality

Topics

- Design patterns (MVC, Singleton)
- Security basics (OWASP Top 10)
- Unit testing
- Performance tuning
- Code reviews

Hands-On

- Write unit tests
- Secure APIs
- Peer code reviews

Deliverables

- Test & review reports

Week 5 – DevOps & Infrastructure (NEW)

Objectives

Expose interns to **real production-like environments** and DevOps workflows.

Topics

- DevOps culture & lifecycle
- Linux deep dive (process, permissions)
- Networking for DevOps (VPC, ports, firewalls)
- Cloud basics (AWS / Azure / GCP overview)
- Virtual machines vs containers

Tools & Technologies

- Docker (images, containers, Dockerfile)
- CI/CD basics (GitHub Actions / Jenkins)
- Infrastructure basics:
  - EC2 / VM
  - Load Balancer
  - Auto Scaling (conceptual)
- Environment variables & secrets
- Monitoring & logging basics

Hands-On

- Dockerize the internship project
- Create Dockerfile & docker-compose
- Build a CI pipeline
- Deploy app to cloud VM
- Configure basic monitoring

Deliverables

- Dockerized application
- CI pipeline config
- Cloud deployment screenshots

Week 6 – Deployment, Soft Skills & Final Evaluation

Technical

- Production deployment best practices
- Application scaling concepts
- Backup & rollback strategies
- Cost awareness in cloud

Professional Skills

- Resume & LinkedIn optimization
- System design basics (for freshers)
- Mock interviews (Tech + HR)
- Client communication & etiquette

Final Evaluation Weightage

Area	Weight
Development skills	35%
Project & deployment	35%
DevOps & infra understanding	15%
Communication & discipline	15%

Additional Enhancements

- Kubernetes intro
- Cloud certification orientation
- DevOps troubleshooting day
- Real incident simulation