



Learn, Create & Succeed with us

# FULL STACK DEVELOPMENT

Course

Developing end-to-end web applications



# INTRODUCING PW SKILLS

PW Skills is a leading tech upskilling platform specializing in cutting-edge AI and Web-related courses with a strong focus on industry practices to help you progress in your professional career.

PW Skills has empowered over **3.5 Lakh learners till date.**



23%

The demand for Web Developers will grow **23%** by 2031



\$89 B

The global web development market is projected to reach **\$89 billion** by 2027.



8.03%

Web development has a CAGR growth rate of **8.03%** by 2027.

Elevate your **Expertise**

&

Embrace the **Digital Revolution!**



# UNLEASH YOUR WEB WIZARDRY!

Explore the power of coding with our cutting-edge Full Stack Web Development Pro Program! You'll gain proficiency in database management using MongoDB, server-side development using Node.js and Express.js, and client-side development using React.js.

Through this comprehensive program, you will learn to leverage each stack component to build dynamic and scalable web applications.

Join us & become a web wizard!

***The journey starts here!.....***

Structured Lesson plans for all the modules helpful for revision and Preparation.



Updated program as per current and future trends.



**UNLOCK  
BENEFITS  
WITH DATA**

Industry Ready Resources

State Of The Art Curriculum

Industry Exposure

Hands-On Learning

The industry-relevant projects and mentorship provide valuable insights across various domains.



Gain practical insights, and solve real-world challenges in real-time.

# COURSE CURRICULUM

## Fundamentals



- Basic Of Internet
- Browser
- Client and Server Architecture
- Static and Dynamic Website
- Text editor and IDE

## HTML



- Introduction To Web development
- Web Development Tools
- Element and Tag In HTML
- Core HTML
- Media and Forms
- Modern HTML
- Emmet
- SEO

## CSS



- Introduction To CSS
- Basics CSS
- Position in CSS
- Flexbox In CSS
- Grid
- Media Query
- CSS Selector
- Advance CSS

## Tailwind CSS



- Understanding Tailwind CSS With Projects

## GIT and Github



- Version Control System
- General Commands on Git
- Github

## Javascript



- Fundamentals Of Javascript
- Operators In javascript
- Type Conversion
- Condition and Loops
- Function in javascript
- Array and Object
- Advance Javascript
- Class In javascript
- Error Handling
- Async Js, Browser API & Window
- DOM

# COURSE CURRICULUM

## React



- Walkthrough with React
- React Components
- JSX, HOC
- Component Style
- React Router
- Form Handling and API Calls
- Redux Toolkit

## Networking



- Introduction to Networking
- DNS and Domain Management
- HTTP and HTTPS Protocols
- Web Application Security:

## Node JS



- Intro To NodeJs
- Modules, creation and loading of modules
- Path Module
- OS Module
- File System Module

## Express



- Introduction to Express
- Handling HTTP GET & POST Requests
- Environment Variables
- Input Validation
- Handling HTTP PUT/PATCH & DELETE Requests
- Express Middleware
- Creating Custom Middleware
- Built-in Middleware
- Third-party Middleware
- CORS

## Database



- File Based Storage System
- What is Schema including ER diagrams
- Intro to DBMS
- Intro to Data Models
- DBMS Classification: Relational & Non relational
- Relational Database Management System(RDBMS)
- Types of Relationships.
- Keys in RDBMS. Primary, Candidate,
- Super & Foreign
- ACID
- Introduction to Normalization. Why
- Normalization?
- Join(Inner, Left, Right and Full Joins)
- Dependency (Functional, Inclusion, Multivalued, Join) & Decomposition
- Indexing and Performance Optimization
- Transactions and Concurrency Control
- Database Security

# COURSE CURRICULUM

## MongoDB



- Schemas
- Models
- Comparison Query Operators
- Logical Query Operators
- Regular Expressions
- Counting
- Pagination

## Project On Authentication



- Authentication and Authorization
- Creating a generic User Model
- Adding functionality for registering Users
- Hashing Passwords for added security
- Authenticating Users
- JSON Web Tokens & Intro to SSO (Single Sign On)
- Generating Authentication Tokens

## Project On Authentication



- Added security with Environment Variables
- Setting Response Headers
- Encapsulating Logic in Mongoose Models
- Auth Middleware
- Protected Routes
- Retrieving current user information in Frontend
- Logging Out Users
- Role-based Authorization
- Exception handling
- OAuth(Single Sign On), Passport

## Working With Files



- Handling file uploads
- Validating files
- Single file and multiple file uploads
- Uploading files to cloud
- Multer, formidable for file processing

## Capstone Project



- Frontend
- Backend

# CAREER TRANSITIONS

## Prithviraj

From  
Graduation

To  
Software Engineer at  
LTIMindtree

## Lipsa Jena

From  
Graduate

To  
React Developer at Casefox

## Payal Kumari

To  
Software Engineer at  
Sourcewiz

From  
Graduate

## Avneet Dey

From  
Graduate

To  
System Engineer at TCS

# CAREER TRANSITIONS

## Sushree Sangita

From  
Graduate

To  
Junior UI Developer at  
Asite Solutions PVT Ltd

## Manas Ranjan

To  
Associate Software engineer  
at Accion labs

From  
Assistant professor



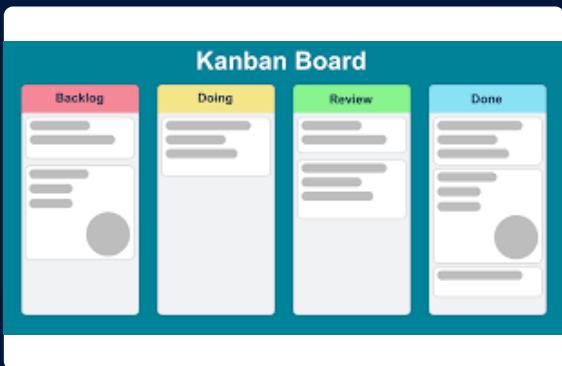
# INDUSTRY PROJECTS



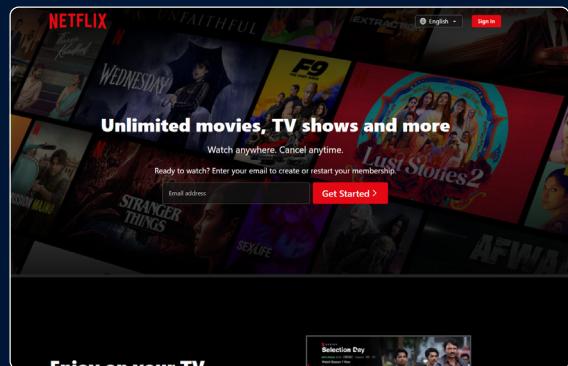
OYO Clone



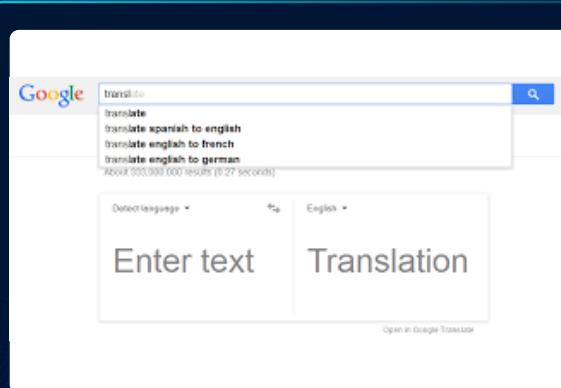
Gmail Clone Using  
Tailwind CSS



Kanban Board Using React



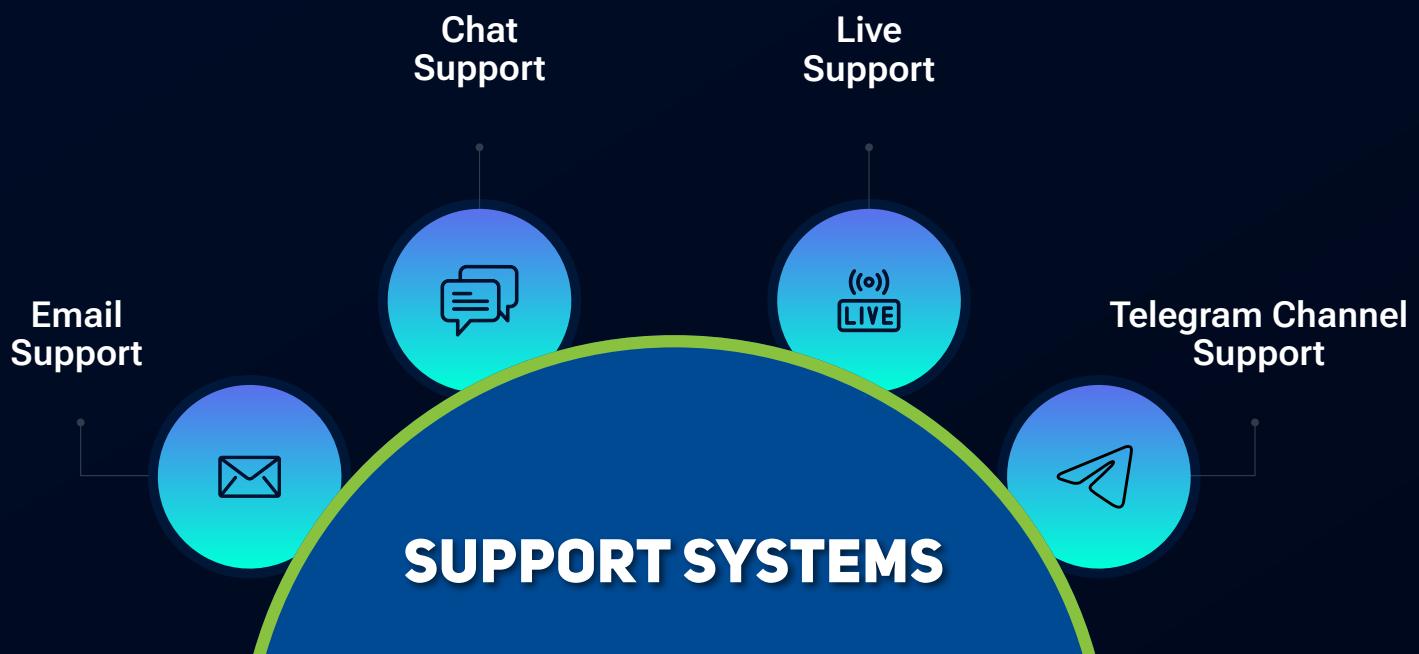
Capstone Project



Language translator using  
google translate API (react)

# SUPPORT SYSTEMS

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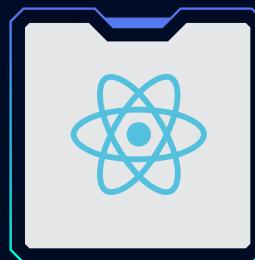
# CERTIFICATION

Receive a certificate of completion upon successfully completing this course!



# TOOLS COVERED

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Forge Your Path with  
**OUR FACULTY AND  
INDUSTRY EXPERTS**

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**Vishwa Mohan**

CIO - PW

*Ex - LinkedIn, Oracle, Walmart Labs, Paypal*



**Akshay Mittal**

Senior Software Engineer at Nvidia | Ex-EY & Infosys

*8+ years of experience in software development.*

*500+ hours of teaching experience  
at major edtech brands.*



**Sanket Singh**

SWE II at Google Pay

*Ex - LinkedIn*

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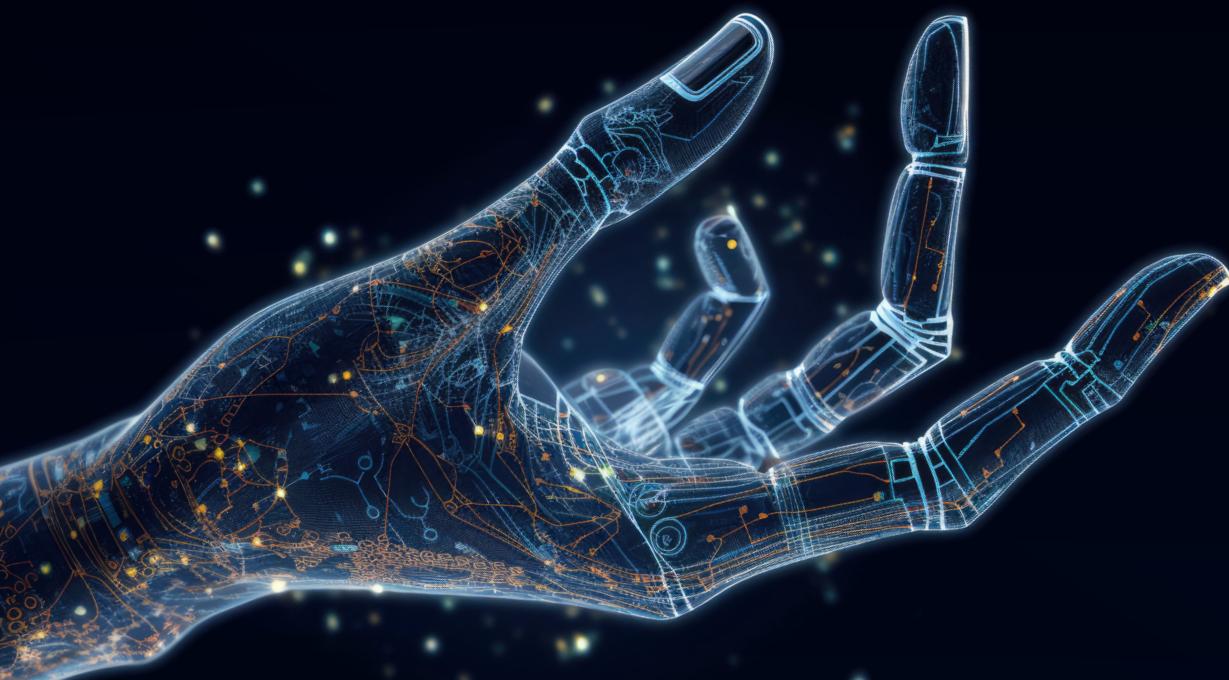
CATERPILLAR®

# ELIGIBILITY & ADMISSION

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- No programming experience is required.
- College students who have recently started and will complete graduation within next 1-3 years are encouraged to apply.
- This program is suitable for fresh graduates and working professionals as well with some relevant work experience.





## Contact Us & Enrol now

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