

Prolay Kumar Panda

Senior Full-Stack Web Developer | SaaS | Cloud | AI Integration

Professional Summary

Systems architect with expertise in requirement gathering and analysis, architectural, component, and interface design and development for web-based applications in multiple domains. Web Developer with **7+ years** of experience in designing and developing user interfaces, backend, API, testing, and debugging. Proven ability in optimizing web functionalities that improve workflow efficiency.

Key responsibilities handled :

- Developing the code as per the requirements
- Client coordination and requirements of projects.
- Interface with clients and gather business requirements and objectives.
- Design, develop and implement new integration.
- Analyzing information.
- Developing the responsive pages.
- Develop solutions to improvise the performance and scalability of systems.
- Writing UI/Business validations for the owned use cases.
- Unit testing and integration testing of owning use cases.
- Whole product testing prior to deployment of the product.
- Provide innovative solutions to complex business problems.
- Develop and maintain new and existing customer-facing web applications/software. Create and maintain documentation of all applications.

Skills

- **Backend** : PHP, NodeJS, NestJS, NextJS, Python, FastAPI, Laravel, Codeigniter Wordpress CMS
- **Frontend**: ReactJS, NextJS, HTML, CSS, Javascript, JQuery, Bootstrap, TailwindCss, Wordpress
- **Server Knowledge** : EC2, CPanel, Hpanel, AWS S3,
- **Server Management**: Configure and maintain Nginx web servers on Linux (Ubuntu/CentOS) environments.
- **Databases** : MySQL, PostgreSQL, MSSQL, MongoDB
- **Database Design**: Design complex relational database schemas and optimize.
- **Testing**: Unit/Integration testing for the API flow, and Creating API documentation, Postmen, Swagger, PHPUnit, Codemtion
- **Third Party API integration**: Facebook GraphQL, Google API's (Map, Youtube, OAuth, Analytics), Twilio, Msg91, Whatsapp API, AWS (S3, SES, SNS), OpenAI SDK
- **Payments & Integration** : PayPal, Stripe, RazorPay, Authorize.Net, ICICI Bank Payment Gateway, Plaid

- **AI & Automation** : OpenAI API, OCR (PDF/JPG), Python Automation, AI-assisted Data Extraction & Validation
- **Other Tools**: Github, JIRA, Slack, Trello
- **Cloud & DevOps** : AWS (EC2, S3, SES, SNS), Cloudflare, Nginx, Ubuntu, CI/CD, Vercel Deployment

Education

Qualification Awarded: Bachelor in Information Technology (Bsc I.T)

PROJECTS

Project Name: Inform Analysis

Description: Sports analytics video panel

Environment: Laravel+javascript+jquery

Responsibilities:

- Design the panel from given figma wireframe
- Design Custom Video Panel with following capabilities
 - a).Record Play data
 - b).Convert the video analytics XML data to visual representation of data row and its multiple segments containing the video analytic data of that particular time range
 - c).Visually moving the XML data segment with video play time
 - d).Create playlists from selected segments of the video
 - e).Idle time freeze of the video with confirmation to play again
 - f).Dragging particular data segment to analyze the video of the particular time frame
 - g).Auto jump of segments from one time frame to another of the selected time row
 - h).Playlist video panel for playing the video clips automatically

Project Name: Courier

Description: Courier data process using google maps,notification

Environment: Laravel+Vue.js

Responsibilities:

- Send mass notification to selected user
- Send single notification to selected user
- Filter Location lists with maps coordinate

Project Name: Penless

Description: Design+Develop Product list page according to figma wireframe

Environment: Wordpress+Jquery

Responsibilities:

- Design the product list page according to figma wireframe
- Custom Shortcodes
 - a).Product Category Dropdown Filter
 - b).Product Type custom checkbox filter
 - c).Custom Product Packaging Checkbox with Package image filter
 - d).Custom product table with search+per page filter+sorting+custom pagination
 - e).Add together all the custom shortcode with AJAX filter of the products

Project Name: Mobilefirst Website Page Design

Description: Web pages design according to figma wireframe

Environment: HTML+CSS+Jquery

Responsibilities:

- Design the Web pages design(responsive) according to figma wireframe

Project Name: Police Document Digitization

Description: Process flow design

Environment: Using Microsoft word wireframing

Responsibilities:

- Analysis of Process flow and create a visual representation
 - a).Security measures
 - b).Digitisation flow
 - c).Permission flow

Project Name: Intranet Desktop CMS (College Management System) Platform

Description: College campus management with student admission, fees management & collection, result management

Environment: VB.NET, MsSQL, Crystal Report

Responsibilities:

- Project Analysis & SRS Process
- Database Development
- Code Development

Project Name: Online Gaming Platform

Description: Youtube-like Video Upload with auto Thumb capture using FFMPEG). It is an E-commerce platform.

Environment: Nodejs, React JS, Core PHP, Laravel

Unit Test: Jest

Responsibilities:

- Project Analysis & SRS Process
- Database Development
- Code Development
- Client Interaction & Management

Project Name: Online Art Gallery

Description: E-commerce platform for Artists & Art lovers. Project was developed using Codeigniter 3.1.9 as PHP Framework, and Mysql as database storage.

Environment: Codeigniter, Core PHP, MySQL

Responsibilities:

- Project Analysis & SRS Process
- Database Development
- Code Development
- Client Interaction & Management

Project Name: Online Home Design & Plan Buy-Sell Platform

Description: E-commerce platform for Custom home plans and designs. Users will upload their house blueprint plan or provide details of the land and house basics like no. of rooms, kitchen, bathroom, garage, and desired design and avail service from the platform.

Environment: Laravel 5.4 as PHP Framework, Mysql

Payment API: Paypal, Stripe

Responsibilities:

- Project Analysis & SRS Process
- Database Development
- Code Development
- Client Interaction & Management

Project Name: Montesino Translation

Description: E-commerce platform of Certified Translations for USCIS. Montesino translation is a fast-growing translation company in North America that provides certified translations and is recognized as a primary provider of translation services for immigration purposes.

Environment: Core PHP, Mysql as database storage

Payment API: Paypal, American Express

Project Management: Trello

Responsibilities:

- Project Analysis & SRS Process
- Database Development
- Code Development
- Client Interaction & Management

Project Name: Translation Exchange

Description: Translation Exchange is the data processing and tracking and API-connected platform for Montesino Translation.

Whenever an order is placed in Montesino Translation the platform will get notified and whenever the job is done delivery notifications will send to Montesino Translation.

Environment: Codeigniter, Rest API, JQuery, MySQL

Responsibilities:

- Project Analysis & SRS Process
- Database Development
- Code Development
- Client Interaction & Management

Project Name: October CMS

Description: A real-time node js-based chat section was developed for a UK-based vehicle hiring and hotel booking platform.Chat System

Environment: Node JS, MySQL

Responsibilities:

- Project Analysis & SRS Process
- Database Development
- Code Development
- Client Interaction & Management

Project Name: Orion Neem

Description: Inhouse Learning management system with automated exam and marks and certificate system operated through Mobile APP

Environment: Laravel, MySQL, AWS S3, Cloudflare, HLS

Payment API: ICICI Bank Payment Gateway, Razorpay

SMS API: Msg91

REST API Test Tool: Postmans, Swagger

Unit Test Tool: PHPUnit, Codemtion

Version Control:Bitbucket,Github

Project Management: Trello

Responsibilities:

- DB Design
- Codebase
- Rest API
- Project Analysis & SRS Process
- Database Develop

Project Name: Orion Learnhub

Description: Inhouse & Franchise based Online Learning Management Portal operated through the Web end as well as Mobile App & Provides API services to other franchises.

Environment: Laravel, MySQL, AWS S3, Cloudflare, HLS

Payment API: ICICI Bank Payment Gateway, Razorpay

SMS API: Msg91

REST API Test Tool: Postmans, Swagger

Unit Test Tool: PHPUnit, Codemtion

Version Control: Bitbucket, Github

Project Management: Trello

Responsibilities:

- AnalysisDB Design
- Codebase Development
- REST API Development

Project Name: HRMS

Description: Inhouse Human Resource Management System

Environment: PHP(Codeigniter 3.11), MySQL

Payment API: ICICI Bank Payment Gateway, Razorpay

SMS API: Msg91

Unit Test Tool: PHPUnit, Codemtion

Version Control: Bitbucket, Github

Project Management: Trello

Responsibilities:

- Analysis & DB Design
- Codebase Design
- interface Design

Project Name: Sikshapedia.com

Description: College, University, Course, Exams search engine developed in Codeigniter 3.1.13 as PHP Framework, Mysql as database storage, Cloudflare as hosting and storage provider.

Environment: Codeigniter 3.11, MySQL, Cloudflare

Payment API: Razorpay

SMS API: Msg91

Unit Test Tool: PHPUnit

Version Control: Bitbucket, Github

Project Management: Trello

Responsibilities:

- Project Analysis & SRS Process
- Database Development
- Code Development
- Client Interaction & Management

Project Name: CMS (College Management System)

Description: CMS(SASS) with features Admission Management, Seat book Management, Hostel Management, Human Resource Management, Canteen Management, Asset Management, Document Management, Payroll Management, Consultant Management, etc.

Environment: Codeigniter 3.11, MySQL, Cloudflare, jQuery

Payment API: RazorPay, Paytm, ICICI Bank Payment Gateway,NTTDATA

SMS API: Twillo

Unit Test Tool: PHPUnit, Codemtion

Version Control:Bitbucket,Github

Project Management: Trello

Responsibilities:

- Architectural Design
- Data Analysis
- Database Development
- Interface Design
- Code Development

Project Name: CMS (Content Management System)

Description: CMS(SASS) with the theme, page management, post management, SEO tools(ongoing), database-less file management, etc.

Environment: Codeigniter 4.3, MySQL, Cloudflare, jQuery

Payment API: RazorPay, Paytm

SMS API: Twillo

Unit Test Tool: PHPUnit, Codemtion

Version Control:Bitbucket,Github

Project Management: Trello

Responsibilities:

- Architectural Design
- Database Development
- Interface Design
- Code Development

Project Name: SOS (Sales Onboarding System)

Description: **SOS**(NON-SASS) with user management,call register,proposal generation,report generation.

Environment:Yii 1.1, MySQL, Cloudflare, jQuery

SMS API: Twillo

EMAIL API:Brevo Bulk Email API

Unit Test Tool: PHPUnit, Codemtion

Version Control: Github

Project Management: Trello

Responsibilities:

- Architectural Design
- Database Development
- Interface Design
- Code Development

Project Name: CMS (College Management System)

Description: CMS(SASS) with features Admission Management, Seat book Management, Hostel Management, Human Resource Management, Canteen Management, Asset Management, Document Management, Payroll Management, Consultant Management, etc.

Environment: NodeJs, Prisma, MySQL, NuxtJs, Cloudflare, AWS

Payment API: RazorPay, Paytm, ICICI Bank Payment Gateway

SMS API: Twilio, AWS SNS

Version Control: Github

Project Management: Trello

Responsibilities:

- Architectural Design
- Data Analysis
- Database Development
- NodeJs+Prisma+MySQL Backend API Development
- NuxtJs in Frontend Development
- Github Version control
- Vercel Deployment
- AWS S3 Storage

Project Name: AVS (Age Verification System)

Description: AVS to upload USA based School, College Play team registration through excel upload and automail for document upload to registered users. Document store to S3. Auto deletion of files 15 days after the file uploaded. Manual Document verification. Auto document verification with OCR to read PDF and JPG files content to get the DOB and second DOB reading from the uploaded document using OpenAI (Python script to read file) and verify the DOB from the file and update the database and send user mail for verified or not verified.

Environment: Laravel 11, Python, MySQL, AWS S3, jQuery, TailwindCss

AI API: OpenAI SDK

Mail API: Mailgun

Unit Test Tool: PHPUnit, Codemtion

Version Control: Github

Project Management: Trello

AI: OpenAI to build Python script to read the DOB file and perform further operation according to that.

Responsibilities:

- Architectural Design
- Database Development
- Interface Design
- Code Development

Project Name: Ravens App (API for iOS App)

Description: Ravens Rugby Player registration using Excel , Coach registration, RBAC, Azure Login (only authorized user from Azure panel) to Backend web panel , Player analytics in in Backend panel and in App

Environment: Laravel 11, MySQL, AWS S3, jQuery, Bootstrap

SSO API: Azure OAuth

Mail API: AWS SNS

Unit Test Tool: PHPUnit, Codemtion

Version Control: Github

Project Management: Trello

Responsibilities:

- Architectural Design
- Database Development
- Interface Design
- Code Development

Project Name: Ravens Game Ticket Booking

Description: Ravens Rugby Game online ticket booking and revenue management and analytics in backend and User login to the system using SeatGeek account and book tickets and admin login using Azure OAuth (only authorized user from Azure panel).

Environment: Codeigniter 3.1.11, MySQL, AWS S3, AWS Authorized Login using Putty to Server and Database, jQuery, Bootstrap

SSO API: Azure OAuth ,SeatGeek

Server Setup: Ubuntu 24 installation in AWS ,Nginx server setup ,PHP installation,Project setup

Mail API: AWS SNS

Unit Test Tool: PHPUnit, Codemtion

Version Control: Github

Project Management: Trello

Responsibilities:

- Architectural Design
- Database Development
- Interface Design
- Code Development

Project Name: Ravens Suite

Description: Baltimore Ravens Rugby IPTV solution and revenue management and analytics in backend and admin login using Azure OAuth (only authorized user from

Azure panel).

Environment: NestJs(API),NextJs(frontend & admin panel),Prisma, MySQL, AWS S3, AWS Authorized Login using Putty to Server and Database, TailwindCss,VITEC IPTV API and Admin Panel Solution

DevOps: Nginx Web Server Configuration,CRON setup

SSO API: Azure OAuth

Server Setup: Ubuntu 24 installation in AWS ,Nginx server setup ,VITEC IPTV Channel Setup,Project setup

Mail API: AWS SNS

Unit Test Tool: Codemtion

Version Control: Github

Project Management: Trello

AI: Chat GPT,Claude,OpenAI codex,Loveable

- **UI Frontend:** Designed using Loveable ai and later customized with claude to match the design from the Figma
- **UI Backend:** Structure was made manually then given the full context of the Backend UI area step by step to Codex and Codex has updated and fix issues in it.
- **Database Design:** Prisma schema created manually and optimized with Codex by giving full context of the database structure should be
- **API Structure:** NestJs API roadmap has been given with full context to Codex and built the API where bugs and optimization done manually and using Codex assistant side by side
- **Frontend+Backend Proxy API:** Using the NestJs API by proper roadmap and instruction with context built the Proxy API's for both Frontend and Backend with all bug fixing manually and with Codex+Claude (sometimes Codex unable to sort things out) help.
- **API Postman Collection:** Created all the API collection using the Codex
- **Customizable Datatable:** Given proper requirement as of following:
 - cursor based pagination
 - inbuilt search area
 - inbuilt edit and delete option
 - inbuilt edit and delete option is also customizable for various area of the project (like user list,rooms list,roles list,etc.)
 - inbuilt form for edit (each section has its own edit form but it is configured to being injected to the configurable datatable)
- **Optimization:** With proper instruction Codex helped to optimize the API,Proxy API,Security,UI

Responsibilities:

- Architectural Design
- Database Development
- Interface Design
- Code Development