



# PANKAJ PRAMANIK

SOFTWARE DEVELOPER | DATA SCIENTIST |  
ADVANCED WEB3D DEVELOPER

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## ABOUT ME

I'm a dedicated professional excelling in the fields of Software Development, Data Science, AI Engineering, and Advanced Web3D Development. My career revolves around deciphering data insights, crafting intelligent AI solutions, and creating captivating 3D web experiences. My work is driven by a relentless pursuit of innovation, where I constantly strive to push the limits and deliver cutting-edge solutions at the intersection of these dynamic domains.

## SKILLS

- JavaScript
- TypeScript
- Python
- NodeJS
- ExpressJS
- Django
- React js
- NextJs
- React Native
- Gatsby
- Nest.js
- Bootstrap
- Material UI
- Tailwind css
- Three.js
- R3F
- Babylon.js
- WebXR
- Solidity
- Web3.js
- Ether.js
- OpenAI
- CI/CD with Github
- MYSQL
- Nginx
- Apache Kafka
- Docker
- Kubernetes
- AWS
- Jupyter Notebook
- Numpy
- Pandas
- Matplotlib
- scikit-learn
- Seaborn
- TensorFlow
- OpenAI
- SQL/NoSQL

## DATA SCIENCE ALGORITHMS SKILLS

Classification (Naïve Bayes, KNN, SVM, Decision Tree, Random Forest, etc.), Regression (Linear, Multiple Linear, Ridge, Lasso, Random Forest, SVR, etc.), Classification (K-Means, Hierarchical), Deep Learning (RNN, CNN, Transfer Learning), Reinforcement Learning

## EDUCATION

**Khulna University of Engineering and Technology**  
*Bachelor of Science in Mechanical Engineering*

May 2015

I studied Mechanical Engineering at Khulna University of Engineering & Technology. But I realized that my true passion lies in software engineering, a field that I couldn't fully explore within the confines of my university curriculum. I had an overwhelming desire to immerse myself in the world of software development and acquire practical skills that would enable me to bring my ideas to life. For that over the past 8 years, I have dedicated myself to an intensive self-study program, which has allowed me to delve into various programming languages, development frameworks, and software engineering principles.

**Certifications Link:**

<https://pankajpramanik.com/resume/#certifications>

## EXPERIENCE

**Most Loved Workplace**

May 2023 – July 2023

*Machine Learning Engineer*

- Worked for Text Analytics, developing different Statistical Machine Learning and Data Mining solutions to various business problems and generating data visualizations using Python.
- Worked on transforming business requirements into analytical models, designing algorithms, building models, and developing data mining and reporting solutions that scale across a massive volume of structured and unstructured data.
- Implemented machine learning algorithms on large datasets to understand hidden patterns and capture insights.

**ByDesign, Remotely**

January 2023 – April 2023

*Full Stack Developer*

- Working on building out the static UI and adding the dynamic attributes to large automotive applications. Created custom Push Notifications, RESTful APIs, and interactions using React-Native-Camera.
- Involved in Front end validation and server-side validation.
- Working with the Middleware using Redux-Thunk, Redux-Saga, Redux-Logger, and Universal React Redux. Expertise in Reacts framework to develop the SPA.
- Deployed application to the GooglePlay Store and Apple Store. Involved in creating, Debugging and testing web services.
- Optimized Microservices using NodeJS and ESO as interfaces to Cassandra NoSQL database. Hands-on UML compliant high-level design with data flow diagrams, Class Diagrams, Sequence Diagrams, Activity Diagrams, and Use Cases and documentation for peer developers.

**Crewfare.com, Remotely**

August 2022 – January 2023

*Full Stack Engineer*

- Worked on writing API and Web Services in Node.js. Good knowledge in developing web applications and implementing Model View Control (MVC) architecture using server-less applications with Node.js, and AWS Serverless Framework.
- Changed Redux actions to Promises and Lifecycle Methods to asynchronous functions using ES7 async await to manage Reacts level state better and cut Redux container development time by 80%.
- Built features for 100,000+ users through CSS3, Flexbox, Storybook, React Navigation, Layout Animated, and Animated API in response to user scroll and click events to
- Implemented APIs with AWS Lambda and Serverless Framework in Node.js
- Built Gulp process to watch all the new typescript code changes converted into ES6 format for recent browsers.
- Did proof of concept work for deploying the in-house application to the AWS cloud using AWS services, in particular EC2 and RDS.
- Worked on developing applications using amazon web services like EC2, Cloud Search, Elastic Load balancer ELB, S3, and CloudFront.

**Signature Ai, Remote**

April 2022 – August 2022

*Full Stack Blockchain Engineer*

- Created smart contracts using solidity programming

- Involved in DAPP development using HTML, JavaScript and Node.js, and interact with Ethereum Blockchain by using Web3 JS API.
- Deployed the smart contract code in Testrpc and performed testing O Created private network with Go-Ethereum.
- Deployed smart contracts in different environments using truffle
- Involved in integrating Ethereum blockchain with Metamask browser.
- 2 years of Analytical Sr 3D/WebGL Software Engineer experience in Design, Development, Support, and Implementation of global enterprise products and services with m-tier client-server architecture.
- Optimized loading of hierarchical level of detail meshes to reduce data usage by 30-50%.
- Designing and presenting interactive sessions about Bitcoin and Ethereum protocols and presenting them to different agencies.
- Experience with multiple Blockchain Technology platforms (Ethereum/ Hyperledger/ Ripple).
- Developed a web channel for the Retail industry using Blockchain technology using Node.js.
- Configured and completed the end-to-end setup of the Python project Hyper ledger Cello, A "Blockchain as a service" in Amazon AWS using Ubuntu instances.

### **Prime Lab, Remote**

March 2022 – August 2022

#### *Full Stack Engineer*

- Worked with Front-end JavaScript frameworks like React, React Native, Next.js, NodeJS. And with the creation of RESTful Web service.
- I was comfortable working independently and also a good team player. Highly motivated to take independent responsibility as well as can contribute and be a productive team member.
- Implemented server-side technologies with restful API and MVC design patterns with node and Typescript.
- Worked on developing Single Page Applications (SPA) using React
- Developed complex SQL queries, Stored Procedures, Functions, and Packages, along with performing DDL and DML operations on the database.
- Developed applications using amazon web services like EC2, Cloud Search, Elastic Load balancer ELB, S3, and Cloud Front.
- Worked with complete software development life cycle, architecting scalable platforms, object-oriented programming, database design, and agile methodologies.
- Collaborated with project managers to select ambitious, but realistic coding milestones on pre-release software project development.

### **XR FOUNDATION, Remote**

November 2021 – June 2022

#### *Blockchain Developer*

- Build automation tool to consolidate whole Blockchain scripts for production deployment.
- Forked and modified the bitcoin blockchain using multichain to create a test network.
- Enabled digital signing of stocks by custodian banks for making offers in a federated blockchain.
- Deployed smart contracts in different environments using truffle Involved in integrating.
- Ethereum blockchain with Metamask browser.
- 2 years of Analytical Sr 3D/WebGL Software Engineer experience in Design, Development, Support, and Implementation of global enterprise products and services with m-tier client-server architecture.
- Worked with 3D Graphics Programming, WebGL, OpenGL, Web Graphics (Canvas/Svg). Three.js, Fabric.js, 2D & 3D Graphics Rendering Works.
- Worked on editing of Glass panels and resizing done using Three.js, Babylon.js, 2D & 3D Graphics Rendering Works.

## **Vircadia, Remote**

November 2021 – April 2022

### *Blockchain Developer*

- Created smart contracts using solidity programming.
- Involved in DAPP development using HTML, Java Script, and Node.js and interact with Ethereum Blockchain by using Web3 JS API.
- Developed methods for accurate and simultaneous rendering of heterogeneous and multiresolution meshes without visual artifacts through the application of a Biva Visibility Test (patent pending) o Worked on Mindbenders WebGL engine, and performed optimizations on both Virtual Texturing and rendering passes.
- Obj/3DS files with Blender & Converting into CTM/FBX Loader. 3D Graphics Programming, WebGL, OpenGL, Web Graphics (Canvas/Svg).
- Three.js, Fabric.js, 2D & 3D Graphics Rendering Works Editing of Glass panels and resizing were done using Three.js, Babylon.js, 2D & 3D Graphics Rendering Works.
- Designing and presenting interactive sessions about Bitcoin and Ethereum protocols and presented them to different agencies

## **PODSCRIBE, Remote**

July 2021 – September 2021

### *Front-End Developer*

- Worked as a Front-end web developer in developing and designing user experiences of Internet/Intranet applications using HTML, HTML5, XML, DHTML CSS, CSS3, SASS, LESS, JavaScript, React JS, Redux, ES6, Saga, thunk Web pack, Flex, jQuery, JSON, Node.js, Ajax, JQUERY Bootstrap.
- Worked for analyzing the Document Object Model (DOM) Layout, DOM Functions, JavaScript functions, and Cascading Styles across cross-browser using Firebug, Developer Tool Bar.
- Used React, Typescript and worked with React Flux architecture too.
- Worked with CVs and SVN for software configuration.
- Worked with Linux system administration, DevOps, and AWS cloud platform.
- Developed applications using amazon web services like EC2, Cloud Search, Elastic Load balancer ELB, S3, and CloudFront.

## **SPOTTER LABS, Remote**

March 2021 – July 2021

### *Full Stack Developer*

- Worked on developing Applications using Python 3.4/2.7, Django 1.9, CSS, HTML, JavaScript, React, jQuery, and Node.js by following W3C standards.
- Implemented server-side technologies with restful API and MVC design patterns with node JS and Django framework.
- Worked on developing Single Page Applications (SPA) using React.
- Developed complex SQL queries, Stored Procedures, Functions, and Packages, along with performing DDL and DML operations on the database.
- Developed applications using amazon web services like EC2, Cloud Search, Elastic Load balancer ELB, S3, and CloudFront.
- Worked with complete software development life cycle, architecting scalable platforms, object-oriented programming, database design, and agile methodologies.
- Collaborated with project managers to select ambitious, but realistic coding milestones on pre-release software project development.

**BREAKER NATION, Remote**

November 2020 – May 2021

*Full Stack Engineer*

- Worked on building out the static UI and adding dynamic attributes to large automotive applications. Created custom Push Notifications, RESTful APIs, and interactions using React-Native-Camera.
- Refactored error message handling design by implementing React Native alert dialog resulting in the potential decrease of user input errors by 44%.
- Worked with the Middleware using Redux-Thunk, Redux-Saga, Redux-Logger, and Universal React Redux. Expertise in Reacts framework to develop the SPA.
- Deployed application to the Google Play Store and Apple Store.
- Involved in creating, Debugging, and testing web services.
- Lead team in the adoption of React-Native best practices.
- Hands-on UML-compliant high-level design with data flow diagrams, Class Diagrams, Sequence Diagrams, Activity Diagrams, and Use Cases and documentation for peer developers.
- Refactored the app's navigation from the ground up using React Navigation to replicate native interactions. Rebuilt from scratch major feature components to improve performance and clean up code.

**STARSCRAPER.IO, Remote**

July 2020 – February 2021

*React Native Developer*

- Engineered login front-end functionality – including RESTful service calls, keychain, credential storage, routing, token verification, and error notifications for international.
- Developed a hybrid mobile platform for automotive applications using JavaScript and React Native, resulting in 88% code share between iOS and Android while reducing development time by 33%.
- Architected application following Atomic Design Principal, leading to 44% increased reusability of components.
- Changed Redux actions to Promises and Lifecycle Methods to asynchronous functions using ES7 async await to manage Reacts level state better and cut Redux container development time by 80%.
- Developed Unit and E2E test cases using Jasmine and Grunt, Node JS.

**Anekconnect Incorporated, Remote**

August 2019 – July 2020

*Full Stack Developer*

- Experience with Front-end JavaScript frameworks like React, React Native, Next.js, NodeJS. And with the creation of RESTful Web service.
- Used Ant Design, React.js and Node.js in effective web design.
- Worked with the Middleware using Redux-Thunk, Redux-Saga, Redux-Logger, and Universal React Redux. Expertise in Reacts framework to develop the SPA.
- Built professional relationships with team and clients to help speed communication and attain project results.
- Modified existing software systems to enhance performance and add new features.
- Used Agile/Scrum development methodology and maintained Scrum-related information in Rally.
- Designed and developed forward-thinking systems that meet user needs and improve productivity.
- Developed complex SQL queries, Stored Procedures, Functions, and Packages, along with performing DDL and DML operations on the database

## **Haggerty & Haggerty Digital Services , Remote**

September 2018 – August 2019

### *Full Stack Developer*

- Reviewed code, debugged problems, and corrected issues.
- Provided software application engineering and maintenance for the development lifecycle.
- Collaborated with fellow engineers to evaluate software and hardware interfaces.
- Inspected equipment, assessed functionality, and optimized controls.
- Estimated work hours and tracked progress using Scrum methodology.
- Experience with Front-end JavaScript frameworks like React, React Native, Next.js, and NodeJS. And with the creation of RESTful Web service.
- Collaborated on stages of the systems development lifecycle from requirement gathering to production releases.

## **Nivan Tech, Remote**

September 2017 – August 2018

### *Full Stack Developer*

- Redesigned and re-implemented services using NGINX, NodeJS, Express JS, Mongo DB, and MySQL.
- Worked with Front-end JavaScript frameworks like Angular, Typescript, NodeJS. And with the creation of RESTful Web service.
- Worked closely with systems analysts, engineers and programmers to understand limitations, develop capabilities and resolve software problems.
- Optimized Micro-services using NodeJS and ESO as interfaces to Cassandra NoSQL database.
- Worked with version control tools like SVN and git, GitHub.
- Created custom, general use modules and components which extend the elements and modules of core Node.js
- Use Object Oriented Concepts, Object Oriented Design (OOD), Object Oriented Analysis (OOA) programming and its implementation.

## **Naked Media, Remote**

June 2016 – December 2019

### *Full Stack Developer*

- Worked for insight into Model View Control (MVC) architecture, Service Oriented Architecture (SOA), Design Patterns, and UML.
- Worked with Database development skills using Database Servers like MySQL, SQL Server 2005, Oracle, and MongoDB.
- Used Agile/Scrum development methodology and maintained Scrum-related information in Rally.
- Worked under a senior software architect, and prototyped a Kafka-based message queuing system as a Spring.
- Worked on UML-compliant high-level design with data flow diagrams, Class Diagrams, Sequence Diagrams, Activity Diagrams, and Use Cases and documentation for peer developers.
- Worked with Front-end JavaScript frameworks like React, React Native, Gatsby.js, and NodeJS. And with the creation of RESTful Web service.