Avinash Roy

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SUMMARY

Versatile and motivated Computer Science Engineer with a solid foundation earned through a Bachelor's degree in 2013. My journey has been unconventional, marked by different ventures. Now equipped with a diverse skill set and a rich portfolio of projects, I am eager to transition into the dynamic landscape of the software industry.

SKILLS

OS: MacOS, Windows, Basics of Linux Commands

Languages: JavaScript, Java, HTML, CSS

Technologies/Framework: REST API, Node.js, Express.js, React.js, Bootstrap, MaterialUI, Mongoose, DOM Manipulation, JSON

Database: MongoDB

Tools: VS Code, Git, Postman, MongoDB Atlas, MongoDB Compass, Render, Netlify, Figma, Vercel, Thunder client

EXPERIENCE

Freelance Developer   December 2013 – February 2015

Java Developer

- Developed web applications and provided software solutions under the supervision of a senior mentor.
- Gained practical experience in various programming languages and frameworks including C and Java.
- Engaged with clients to understand their needs and delivered custom software solutions.

Family Farming and Organic Urea Business   March 2015 – August 2018

Self Employed

- Managed and operated the family farming business.
- Implemented modern agricultural practices to improve productivity and sustainability.
- Oversaw day-to-day operations including labor management, financial planning, and resource allocation.

Founder And Educator   September 2018 – August 2022

Science Classes

- Established and ran a coaching institute for students from grades 6 to 12.
- Designed curriculum and conducted classes in various subjects, providing personalized attention to students.
- Managed administrative tasks including budgeting, scheduling, and staff recruitment.
- Enhanced the learning experience by integrating technology and innovative teaching methods.

PROJECTS

XFlix Node || Jun 2024
Tech Stack :Mongoose ODM, MongoDB, querying, Netlify, ES6, Deployment, Node JS, Express JS, Mongo DB, REST, Postman

XFlix is a video sharing platform which hosts videos for the world to watch. It also features uploading new videos by using external video links (eg: Youtube) and playing these videos.

During the course of this project,

- Built XFlix backend using Node.js, Express.js and MongoDB from scratch.
- Implemented APIs according to the API contract set.

Matching-Game || Jun 2024 || Link
Tech Stack :HTML,CSS,Figma, Bootstrap,ES6,ReactJS,Module-scoped CSS,Flexbox,React-Router-Dom,Condition Rendering,Component Reusability,,Material UI,Customizing Third-Party Components, Data Handling,Vercel

- Developed a Matching-Game from scratch using HTML, CSS, and React.

- Enhanced UI/UX with Figma designs and implemented routing.
- Utilized React Router for navigation and managed data handling for game functionality

QTify || Jan 2024 || Link

Tech Stack :ReactJS,Module-scoped CSS,Flexbox,Condition Rendering,Component Reusability,Swiper Library usage,Material UI,Customizing Third-Party Components,API Integration and Data Handling,Vercel

- Conducted a thorough analysis of the provided Figma design, successfully identifying and documenting required front-end components.
- Created modular UI components including Cards, Carousels, and Buttons optimizing for reusability across various sections of the application.
- Implemented an intuitive genre-based song filtering system using a tab component by modifying the one provided by MaterialUI, allowing users to browse songs by their preferred genre effortlessly.
- Utilized REST APIs to fetch data served by the backend server

QKart || Dec 2023 || Link

Tech Stack :React Hooks,Forms,Controlled Components,REST, JSON,Developer Tools,,Mongoose ODM,JOI data validation,Postman,Express JS,Node JS,Mongo DB,Hashing,Token authentication,JWT Token,Password authentication,ES6,React State & Props,React,Event Handling,LIFECYCLE METHODS,React Router,Material UI,,localStorage,Keyword Search,Debouncing,Netlify

- Implemented the core logic for authentication, shopping cart and checkout.
- Improved UI by adding responsive design elements for uniform experience across different devices.
- Utilized REST APIs to dynamically load and render data served by the backend server.
- Built the complete set of REST APIs for an E-commerce application following the best practices.
- Used MongoDB NoSQL database for data storage.
- Wrote unit and integration tests to test the implementation".

QTripDynamic || Sep 2023 || Link

Tech Stack :HTML,CSS,ES6,Developer Tools,Bootstrap,HTTP,REST,Responsive Design,DOM Manipulation,cURL,JSON,Event Handling,localStorage,Conditional Rendering,Bootstrap Carousel,Netlify

- Created web pages using HTML and CSS and made them dynamic using JavaScript.
- Improved UX with multi-select filters, image carousels.
- Utilised localStorage to persist user preferences at client-side.

EDUCATION

Dr. B.C Roy Engineering Engineering College   Durgapur, West Bengal
Bachelor of Engineering in Computer Science   *Aug. 2009 – July. 2013*

- **DGPA**: 6.83
  (Degree Grade Point Average)

CERTIFICATION

Fellowship in Software Development   June 25, 2024
*FullStack Specialization -**CRIO.DO***