

Piyush Jagtap

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OBJECTIVE

Software Developer with 3 years of full-stack development experience specializing in the **MERN** stack (**MongoDB, Express, React, Node.js**). Proven expertise in developing efficient applications, high-quality APIs using both Express and **.NET** frameworks, and delivering solutions, with experience in the **banking and finance** domain. Active participant in various hackathons, demonstrating initiative and problem-solving skills. Strong collaborator, team player, and adaptable leader.

SKILLS

Technical Skills	Node.js, React.js, Express, Redux, Python, MongoDB, Mongoose, MERN stack, GitHub, Git, .NET Framework, C#, MVC, REST API Creation, REST API Integration, JSON, OpenCV, Socket.io, Realm, HTML5, CSS3, Debugging, SQL, Mapbox, Firebase
Tools	VSCode, Arduino IDE, SSMS, Bootstrap, Jira, Vercel, ChatGPT, Gemini, AWS EC2,
Others	AWS Kinesis Video Stream, Tailwind, JIRA

PROFESSIONAL EXPERIENCE

July 2021 - Present

Regional Finance, USA - Tata Consultancy Services

Software Developer

- Developed a **React** application utilizing **Redux** and **Axios** to manage **ACH** transactions, leveraging **GitHub** for source control and **GitHub Pages** for development deployment. This showcases expertise in modern front-end development, and API integration, and ensures standardization and scalability.
- Built a proof-of-concept **React microservices application**, highlighting the potential for migrating legacy **NLS (Nortridge Loan System)** functionality to a modern frontend architecture.
- Successfully migrated loan decisioning APIs from the **Provenir** low-code platform to in-house **.NET** code, integrating with banking reports (**DMS, Equifax**) to automate loan offer determinations (e.g. small, large, big auto, etc) based on credit profile. This demonstrates adaptability and strong **.NET** development skills.
- Played a crucial role in developing **Branch ACH** processes for streamlined ACH-based transactions, involving **.NET** API creation, **VBScripting**, and stored procedure development.
- Facilitated automated loan document signing through DocuSign integration, implementing **PDF** tagging and **SQL** queries and **stored procedures** for efficient workflow optimization.
- Contributed to the development of multiple banking-related microservices, including DMS and Equifax integrations, demonstrating proficiency in modern architectural approaches.
- Spearheaded the launch of financial services migration to new states on the Nortridge Loan System (NLS), utilizing VBScript, SQL, and **JIRA** for streamlined management.
- Served as **Crisis Management Lead**, ensuring **Business Continuity Planning** (BCP), coordinating work relocation mock **drills**, mass communication drills, and strategies for seamless operation during crises.

PROJECTS

Real Time Health Tracking Module and Dashboard

Spearheaded the full-stack architectural design and development of a dynamic **health-tracking dashboard** application for smart shirts. Designed the architecture across the microcontroller device, backend, frontend, and database to effectively capture and display health metrics.

- Robust Authentication:** Implemented secure phone/email verification, role-based authorization, and session management for user access control, with Google Sign-In Options (**Firestore Authentication**).
- Real-time Visualization:** Engineered interactive graphs, charts, and tables for real-time health metric visualization (**Realm-web, React-chartjs-2, Socket.io**).
- Scalable API:** Designed and implemented **RESTful API** endpoints using **Node.js** and **Express** for optimal backend performance.
- Sensor Integration:** Architected microcontroller (Arduino UNO R4 WiFi) with BLE for seamless connection to a Flutter Android app. Designed for potential integration with heart rate, breath rate, gyroscope, and temperature sensors.

Technology Stack

- **Frontend:** React, Redux, Axios, Socket.io, React-chartjs-2, Firebase, Realm-web, MUI,
 - **Backend:** Node.js, Express, Nodemon, Bcrypt, Cors, Mongoose, Gridfs-stream, Multer, Nodemailer, Readablestream, Socket.io
 - **Database:** MongoDB, Realm
 - **Microcontroller and Sensors:** Arduino UNO R4 WiFi, Gyroscope, Temperature, Infrared sensors, etc.
 - **Tools/Libraries:** Arduino IDE, BLE libraries, VSCode, Github, Mapbox
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HACKATHONS - SMART INDIA HACKATHON 2020

Smart Attendance Solution for MGNREGA workers

Developed a robust attendance system for MGNREGA workers, combining advanced technologies for streamlined and secure attendance tracking.

- **React Frontend:** Designed an intuitive user interface using React, leveraging **Redux** for state management and **Axios** for API communication.
- **Multi-Factor Authentication:** Implemented robust 3-factor authentication including **facial recognition**, **geofencing**, and **OTP verification (Twilio)** to ensure attendance accuracy.
- **Advanced Facial Recognition:** Integrated the **FaceNet** library (Keras) and a custom **neural network** algorithm to accurately predict facial data points and identify individuals.
- **Hybrid Backend:** Utilized a hybrid backend approach:
 - **Firebase:** For authentication and real-time database capabilities.
 - **Flask (MVC):** Built a Flask backend with MVC architecture for specific data processing of the AI-based facial recognition algorithms.

Technology Stack

- **Frontend:** React, Redux, Axios
 - **Backend:** Firebase (Authentication, Realtime Database), Flask (MVC)
 - **Authentication:** Twilio (OTP), nodeMailer
 - **Geofencing:** Mapbox and GeoJSON
 - **Facial Recognition:** FaceNet (Keras), Custom Neural Network
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EDUCATION

Bachelor of Technology

Rajiv Gandhi Proudtyogiki Vishwavidyalaya, Bhopal - 8.56 CGPA

Jul 2017 – Aug 2021

Relevant Coursework: **Operating Systems, Data Structures and Algorithms, Object-Oriented**

Programming, Discrete Mathematics

Science, Mathematics With Computer Science - XII

Apr 2015 – Jul 2016

Kendriya Vidyalaya Bhopal - 87.60 %

TRANINGS AND CERTIFICATES

- Fresher Training Program on **React, NodeJS, .Net, SQL** by Tata Consultancy Services
 - **Deep Learning and Machine Learning** Specialization - CloudxLab IIT Roorkee
 - Google Cloud Platform Fundamentals: Core Infrastructure
 - **MERN Stack Course** Certifications from Coursera and Udemy
 - Software Development Internship at a Drone based Startup focusing on **Javascript, NodeJS, HTML,CSS**, Live location tracking using **Mapbox** and **GeoJSON**
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ACHIEVEMENTS AND VOLUNTEERING

- **Smart India Hackathon (Ministry of HRD)** - 2020 and 2019, 2 times Finalist
- **Technical Excellence Award, Applause Award, On the Spot Award, Special Initiative Award:** Awarded by TCS for exceptional client-side and internal contributions.
- **AICTE - Chattra Vishwakarma Awards** - 2019 - Finalist
- Led educational seminars in schools as a **volunteer** for **Hope of People Everywhere**, an **NGO** focused on children's education and upliftment.