

GITTAM PAL

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SUMMARY

Full-Stack Developer and 2026 BCA graduate with hands-on experience building and deploying three production-grade web applications across the React.js, Node.js, Express.js, and Python FastAPI stack. Skilled in designing REST APIs, relational and NoSQL data models (PostgreSQL, MongoDB), JWT-based authentication, and real-time systems using WebSockets and Socket.IO. Experienced in Docker containerization and GitHub Actions CI/CD automation, with practical exposure to AI-driven data extraction using Google Gemini and Tesseract OCR. Seeking a Software Engineer / Full-Stack Developer role.

TECHNICAL SKILLS

Programming Languages: JavaScript (ES6+), Python, SQL, HTML5, CSS3
Frontend: React.js, Vite, Tailwind CSS, Recharts, React Context API, React Router, Responsive Web Design
Backend: Node.js, Express.js, FastAPI, Socket.IO, REST API Design, JWT Authentication, bcrypt, Middleware
Databases: PostgreSQL, MongoDB, SQLite, Prisma ORM, Supabase, Schema Design, SQL Queries
DevOps & Tools: Docker, Docker Compose, GitHub Actions, CI/CD Pipelines, Git, GitHub, Postman, Linux, VS Code
AI Integration: Google Gemini API, Tesseract OCR, Prompt Engineering, LLM-based Data Extraction
Core Concepts: Data Structures & Algorithms, OOP, ETL Pipelines, Multi-Tenant Architecture, Agile/Scrum, Unit Testing

PROJECT EXPERIENCE

AI-Powered ETL Data Pipeline | Python, FastAPI, PostgreSQL, Google Gemini, Tesseract OCR, Streamlit
[Github-Repo](#)

- Engineered an end-to-end ETL pipeline in Python and FastAPI that ingests unstructured PDFs and images, processing documents per batch with field-extraction accuracy.
- Integrated the Google Gemini LLM with Tesseract OCR to automate intelligent data extraction and transformation, reducing manual data-entry effort.
- Designed a multi-tenant PostgreSQL architecture with isolated tenant storage and secure REST endpoints, supporting concurrent tenants without data leakage.
- Built a Streamlit monitoring dashboard delivering real-time pipeline metrics, cutting average job-failure.

Full-Stack Personal Finance Tracker | React, Node.js, Express, PostgreSQL, Supabase, Prisma, JWT
[Github-Repo](#)

- Developed a full-stack expense-tracking application with a React (Vite) frontend and a Node.js/Express REST API exposing endpoints, backed by PostgreSQL via Supabase and Prisma ORM.
- Implemented JWT and bcrypt authentication with custom Express middleware and the React Context API, securing protected routes and enforcing session expiry.
- Built an interactive Recharts dashboard with category pie charts and multi-currency support (INR, USD, EUR, GBP), rendering + transactions with page loads.

Real-Time Chat Application | Node.js, Socket.IO, React, MongoDB, Docker, GitHub Actions
[Github-Repo](#)

- Built a real-time WebSocket messaging platform using Node.js and Socket.IO with secure room-based communication, supporting concurrent users at message latency.
- Containerized the application with Docker and Docker Compose and automated build, test, and deployment through a GitHub Actions CI/CD pipeline, reducing release time.
- Integrated MongoDB for persistent message history + stored messages and delivered a responsive React + Tailwind CSS interface validated device breakpoints.

EDUCATION

Chitkara University — Rajpura, Punjab <i>Bachelor of Computer Applications (BCA) CGPA: 6.73 / 10</i>	2023 – 2026
Atal Adarsh Vidyalaya — New Delhi <i>Class XII, CBSE (Commerce)</i>	2020 – 2021

RELEVANT COURSEWORK

Data Structures and Algorithms | Database Management Systems | Operating Systems | Object-Oriented Programming | Web Technologies | Computer Networks | Software Engineering | Python Programming