

Pragati Chaturvedi

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SUMMARY

Full-Stack Software Engineer with 2+ years of experience in building performant applications across React, Next.js, and Node.js. My work spans AI-driven applications, data pipelines, and performance-critical systems. Skilled in modular component design, API integration, and building fast, reliable user experiences that scale with a relentless “What else can we do?” mindset.

EXPERIENCE

Web Developer – Division of Information Resources & Technology, CSU Sacramento, CA

Jan 2024 – Feb 2025

Technologies: Python, BeautifulSoup, Pandas, GA4, GTM, Lighthouse, Regex, HTML/CSS, Git, Jira, WCAG/ADA Standards

- Built a Python automation (BeautifulSoup, Pandas) to scan 1,400+ pages & 20,000+ PDFs, enabling structured stale-content cleanup.
- Automated ADA remediation by classifying 4,000+ PDFs via metadata and content rules, reducing manual effort by 90%.
- Performed GA4, GTM, and Lighthouse audits to diagnose performance issues and implement image/caching optimisations.

Freelance Full-stack Developer – MagicBaksa Inc, Gujarat, India

May 2022 – July 2023

Technologies: React, Node.js, Express.js, REST APIs, JWT Auth, MySQL, AWS (RDS, S3, IAM), GitHub, CodePipeline, Postman

- Built a responsive e-commerce platform using React, delivering a seamless, mobile-optimised product-browsing experience.
- Developed Node.js/Express REST APIs with JWT authentication for cart flows, user sessions, and order management.
- Configured AWS RDS for transactional MySQL data and S3 for product images, improving scalability and load performance.
- Designed normalised MySQL schemas and implemented CRUD flows to support inventory, authentication, and order processing.

SKILLS

Programming Languages: Python, JavaScript, C#

Web & Mobile Development: HTML/CSS, ReactJS, Vue, Next.js, Vite, HTML5 Canvas, React Native

APIs & Backend Development: Node.js, Express.js, FastAPI, Flask, RESTful APIs, Connect RPC, Postman

Databases & Cloud: MongoDB, MySQL, AWS (S3, EC2, Elastic Beanstalk, CodePipeline), GCP (Firebase, Firestore)

Development & Testing Tools: Git, Linux/Unix, Postman, Playwright, Selenium (Testing and Automation)

EDUCATION

Master of Science, Computer Science – California State University, Sacramento, CA, USA | **GPA - 3.8 / 4.0**

Aug 2023 – May 2025

Post Graduate Diploma, Computer Applications – Devi Ahilya University, Indore, Madhya Pradesh, India

Jan 2021 – June 2022

Bachelor of Science, Mathematics and Computer Science – Government Science College, Jabalpur, MP, India

Aug 2017 – Oct 2020

PROJECTS

ChicMate – Multi-Modal Personalised Styling App | React Native, FastAPI, Gemini API, CLIP, Firebase | [GitHub](#)

- Built a multi-modal AI styling app that recommends complete outfits from a user’s own wardrobe, cutting selection time by ~80%.
- Developed the cross-platform app enabling users to upload and organise wardrobe images in Firestore with RESTful APIs.
- Integrated CLIP to create embeddings for wardrobe items and user’s multi-modal queries (text or image based).
- Used vector similarity search to retrieve top-matched wardrobe items for recommendations, also aligning with location-based context.
- Leveraged Gemini to generate cohesive outfit suggestions returned with outfit images from user’s wardrobe.

MindShelf – A Personal Knowledge Library | React, Nodejs, Google Gemini API, MongoDB Atlas, AWS EC2, S3 | [GitHub](#)

- Built an AI-powered bookmark alternative that turns saved links into searchable knowledge by generating summaries and notes for it.
- Engineered a React, Node.js/Express and MongoDB system with a Chrome extension enabling one-click capture of web content.
- Implemented vector search and contextual Q&A, enabling users to retrieve insights instantly across documents.

WeatherWaves – Generative Music from Live Weather Data | Python, FastAPI, Weather API, MusicGen AI Model, React | [GitHub](#)

- Built a generative-music app that turns live weather conditions into adaptive soundscapes.
- Engineered a Python backend to fetch and normalise real-time meteorological data for the music-generation pipeline.
- Designed a weather-to-music engine mapping environmental signals to musical vectors that condition an AI audio model.
- Developed a responsive UI that visualises weather states and synchronises dynamic musical changes in real time.

LibBot – Conversational AI for Library Management | Python, Flask, OpenAI API, Function-calling, Google Sheets API | [GitHub](#)

- Built a conversational desktop app that automates library tasks like book search and issuance through a natural-language interface.
- Designed a modular Python–Flask micro-service backend, integrating GPT function-calling for deterministic intent handling.
- Implemented real-time inventory sync via Google Sheets API with caching and validation layers for low-latency, reliable operations.
- Added intent disambiguation, error recovery, and audit logging, achieving 97% accuracy and reducing manual workload by 75%.