BHARGAVI MUDUMBHA

Software Developer · Python Full Stack & Backend Development

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PROFESSIONAL SUMMARY

Software Developer with production experience at TrustBrick Realty Fintech Pvt. Ltd., building a Django and React platform with REST APIs, MySQL, real-time chat, WebRTC calling and AWS deployment. Built and launched the HairShalo e-commerce website end to end as a freelance full-stack developer. B.Tech in AI & Data Science with hands-on machine learning and RAG projects.

EXPERIENCE

Software Developer · TrustBrick Realty Fintech Pvt. Ltd. · Hyderabad — Jun 2026 – Present

- Primary developer: built full-stack features and an affiliate commission engine (Django REST Framework, React, MySQL, AWS).
- Extended live chat (Django Channels, WebSockets, Redis) and WebRTC calling with call queues, routing and recording.
- Resolved a WebSocket handshake timeout that broke voice calls across networks, restoring cross-network calling.
- Implemented email logging, email OTP, WhatsApp lead tracking, TOTP 2FA, IP allowlisting and admin audit trails.
- Fixed a robots.txt rule that made Google render pages empty, restoring search indexing of public pages.

Freelance Full Stack Web Developer · HairShalo (hairshalo.com) · Remote — Aug 2026 – Present

- Lead developer: designed, built and launched the complete e-commerce website for a hair and wig business.
- Built a FastAPI and PostgreSQL backend with JWT auth, Razorpay payments, coupons and inventory, deployed with Docker.
- Developed a responsive HTML5, CSS3 and JavaScript front end with collection filtering, search and product galleries.
- Delivered consultation and contact forms, an FAQ and mobile navigation, iterating directly with the client.

AI & Full Stack Intern · Fixity EDX — Dec 2025 – Jan 2026

- Completed full-stack and applied ML training: React, Node.js, Express, MongoDB, scikit-learn and TensorFlow.

PROJECTS

NEXORA · AI Document Q&A Workspace · *Python, FastAPI, pgvector, React, TypeScript* — github.com/M-Bhargavi8/Nexora

- Built a RAG workspace where users upload PDF, DOCX or XLSX files and get answers with cited sources.
- Designed an async FastAPI backend with pgvector retrieval and a Claude/Gemini model gateway, streaming via SSE.
- Secured it with Argon2id hashing, cookie sessions, CSRF checks and rate limiting; 492 backend and 156 frontend tests.

COGNEXA · Cognitive Gaming Platform · *Python, Flask, SQLAlchemy, pytest* — github.com/M-Bhargavi8/COGNEXA

- Built 11 browser games; 8 Brain Lab games score seven cognitive skills into per-player skill profiles.
- Designed a token-authenticated REST API with role-based access, CSRF protection, rate limiting and security headers.
- Moved game state to the server to block faked wins, and covered the app with 210 pytest tests.

Climate Vision · CNN Weather Classifier · *TensorFlow/Keras, OpenCV, Streamlit* — github.com/M-Bhargavi8/ClimateVision

- Led most of the development of a four-member final-year project classifying Cloudy, Rain, Shine and Sunrise photos.
- Fixed a softmax/loss bug and retrained the Keras CNN to 92.9% held-out test accuracy; served via Streamlit.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, SQL, HTML5, CSS3

Backend Development & APIs: Django, Django REST Framework, FastAPI, Flask, SQLAlchemy, Node.js, Express.js, REST APIs, WebSockets, WebRTC, JWT

Frontend Development: React.js, Tailwind CSS, Bootstrap, Jinja2, Vite, Responsive Web Design, CSS Animations

Databases: MySQL, PostgreSQL, pgvector, SQLite, MongoDB, Redis, Alembic Migrations, Database Design

Cloud, Tools & Software Engineering: AWS (Elastic Beanstalk, RDS, S3), Docker, Git & GitHub, pytest, Vitest, Code Review, Debugging

AI, Machine Learning & Data Analytics: TensorFlow/Keras, scikit-learn, OpenCV, CNNs, Deep Learning, NLP, RAG, LLM APIs, Streamlit, Pandas, NumPy, Tableau, Power BI

EDUCATION

B.Tech, Artificial Intelligence & Data Science · CGPA 8.2/10 — May 2026

Megha Institute of Engineering and Technology for Women, Hyderabad
Intermediate (MPC), St. Ann's Junior College for Girls — 85% · SSC, Vijay Mary High School — 100%

CERTIFICATIONS

Full Stack Data Science with Generative AI, Agentic AI & MERN Stack — Fixity EDX · Basics of Python — Infosys
Use Generative AI for Software Development — IBM · Digital Skills: Artificial Intelligence — Accenture
Data Analytics Job Simulation — Deloitte Australia (Forage), Feb 2026