KRISHIV KHAMBHAYATA

+91 955-848-2002 | krishiv1545@gmail.com | linkedin.com/in/krishiv1545 | github.com/krishiv1545

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, JavaScript (ES6), HTML, CSS
Frameworks/Libraries: Django, FastAPI, Flask, React, Vue.js, SQLAlchemy, NumPy, Matplotlib
Tools/Technologies: Git/GitHub, REST APIs, RBAC, SAP HANA (hdbcli), Celery, Redis, Postman, WSL
Databases/Storages: PostgreSQL, MySQL, SQLite, Cloudflare R2

EXPERIENCE

Software Developer | *KHJ Transcriptions*   May 2025 — Present
- Developed and deployed backend features for a production-scale healthcare billing platform handling financial workflows, insurance processing and payment posting.
- Created a file-sharing app using Django with per-tenant database provisioning and secure storage via Cloudflare R2.
- Developed dynamic summary generation based on user-selected filters using ReportLab for PDF output and Django ORM for dynamic query construction. Resolved production issues by analyzing runtime logs in live EC2 environments.
- Led onboarding sessions covering environment setup, database initialization, and end-to-end walkthroughs of system architecture and core business logic.

PROJECTS

Ledger Review Management System ⌗ | *Django, PostgreSQL, SAP HANA (hdbcli), SMTP, REST APIs*
- Designed a GL Review system with a 4-stage approval workflow (Preparer → Reviewer → FC → Tower Head).
- Integrated SAP HANA via *hdbcli* to map Trial Balance and Balance Sheet into a unified database with field mapping.
- Built RBAC-enforced review handling with GL-level document uploads, reconciliation notes, email notifications on approval/rejection, chained audit logging for review trails, and review assignment through Responsibility Matrix.

Career / Conquer ⌗ | *Python, Flask, Mediapipe, GemmaAI*
- Made a mock interview platform with real-time verbal interaction using speech-to-text and text-to-speech pipelines.
- Integrated Gemma API to dynamically generate questions tailored to each user's uploaded resume.
- Configured webcam-based behavior analysis using Mediapipe to track eye contact, expressions, and speech.
- This allows the project to detect decline in confidence during the mock interview and provide an evaluation at the end.

Salt and Prepper ⌗ 🔗 | *Flask, Vue.js, SQLAlchemy, Celery, Redis, Chart.js, SMTP*
- Created a platform containing quiz creation and attempt workflows with score management and exam interface.
- Wrote relational database schemas using SQLAlchemy to optimize Object-Relational Mapping (ORM) operations.
- Designed Vue.js SPA with Vue Router, Bootstrap 5, and Chart.js for analytics and performance tracking.
- Integrated Celery with Redis to automate monthly performance reports and daily quiz reminders via scheduled tasks.

PSR Image Denoising 🔗 | *Python, PyTorch, NumPy, SciKit-Image*
- Presented at national Smart India Hackathon 2024 under the name Chandrakriti, winning 1st place under ISRO.
- Developed a CNN model based on UNet architecture to denoise images of Moon's Permanently Shadowed Regions.
- Generated synthetic noisy-clean pairs by pre-processing 850+ sunlit OHRC images to act as ground truth for training.

ACHIEVEMENTS

- National winner of **Smart India Hackathon (SIH) 2024** under *Indian Space and Research Organization* (ISRO).
- Winner at **TicTacToe (TTT) 2025**, organized by Dhirubhai Ambani University.
- Finalist at **TicTacToe (TTT) 2024**, organized by Dhirubhai Ambani University.
- Winner of **SSIP Ideathon** organized by SAL University.

CERTIFICATIONS

Postman API Fundamentals Student Expert Certification   Nov. 2024
Foundation in Programming and Data Science (IIT Madras)   Sept. 2024

EDUCATION

Gujarat Technological University   Ahmedabad, Gujarat
Bachelor of Engineering (B.E.), Computer Engineering   *Jun. 2023 — expected Jul. 2027*
Indian Institute of Technology, Madras   Chennai, Tamil Nadu
Diploma in Programming   *Sept. 2023 — Jan. 2026*