

ABHISHEK SRIVASTAVA

Software Engineer

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PROFESSIONAL SUMMARY

Full-Stack Engineer with 2+ years of experience shipping production systems for international clients (Singapore, UK) and an Indian PSU across generative AI, document automation, and carbon reporting. Specializes in multi-tenant backend architecture, REST/GraphQL API design, RAG pipelines, and shipping generative AI (Gemini, OpenAI, SAM 3, Segformer) into production on Azure.

TECHNICAL SKILLS

Languages:	JavaScript, TypeScript, Python, SQL
Frontend & UI:	React.js, Next.js, Vite, Tailwind CSS
Backend:	Node.js, Express.js, FastAPI, Django, REST APIs, GraphQL, Sequelize, Prisma
Databases & Storage:	PostgreSQL, MySQL, MongoDB, Redis, Chroma (vector DB)
AI/ML:	Gemini API, OpenAI API, RAG pipelines, Segformer, SAM 3, MobileSAM, PyTorch, HuggingFace Transformers
DevOps & Cloud:	Docker, Git, GitHub Actions, GHCR, Azure (VM, Files, MySQL, App Gateway), NFS

WORK EXPERIENCE

Software Engineer | Misfits Communications & Digital Services Pvt. Ltd. March 2025 – Present
Delivering full-stack and generative-AI engineering for international product clients and Indian PSU platforms.

AgriM AI — Shopify-Integrated GenAI Platform (FastAPI, Python, MySQL, Azure)

- Contributed backend and AI services to a multi-tier Azure platform (segmented VNet with public/private subnets, WAF + Application Gateway, NSG-enforced DB isolation) fronting a Shopify integration and a 10-microservice AI backend.
- Helped restructure a monolithic workflow into an orchestrator + specialized microservices split (Query Intent, Workflow, Model Calling, RAG Retrieval, Document Processing, Image Generation, 3rd-party Integration, etc.), untangling multi-developer merge conflicts and enabling independent service deployment.
- Built a FastAPI + MySQL service unifying three GenAI capabilities on one port — virtual try-on, floor visualizer, and wall paint/wallpaper — with guarded sub-app mounts so one capability's failure doesn't cascade to the others.
- Integrated Gemini for image generation and OpenAI for safety gating; shipped SAM 3 + MobileSAM + Segformer masking with tap-to-refine UX, and cut VTON first-view latency ~29s → ~11s via progressive delivery.
- Backed retrieval workflows with a Chroma vector store on NFS-shared SSD, accessible across microservices in the private subnet.
- Built a tenant-scoped integration gateway that onboards third-party APIs as declarative DB configs with {{var}} templating, response verification via deep-search on required keys, and configurable retries — no code changes per client.

RVNL Website — Bilingual CMS for Rail Vikas Nigam Limited (Node.js, React, Sequelize, MySQL)

- Full-stack rebuild of RVNL's legacy Angular + PHP site into MERN, with an 81-table bilingual (English + Hindi) schema on a parent + per-language translations pattern, so English can publish while Hindi is still in review.
- Built the CMS with JWT + refresh tokens, granular RBAC, audit logs, and a staging engine routing edits through an Approvals queue; registry-driven Home CMS makes adding an editable section a single-file change.

FileAI — Singapore-based AI Document Automation (SuiteScript, GraphQL, PostgreSQL, Redis)

- Built bidirectional NetSuite ↔ FileAI Drive sync with a configurable field-mapping engine (fuzzy matching, dynamic transforms), deduplication cache, and async callbacks for concurrent multi-file batch uploads.

GoCodeGreen — UK Carbon Footprint Platform (Node.js, React, PostgreSQL)

- Architected 4 assessment modules with baseline-vs-current tCO2e comparison, RBAC with SuperAdmin flow, Excel export pipelines with carbon-pricing calculations, and PDF emissions reports for UK enterprise clients.

Python Developer | MP Square Pvt. Ltd. May 2024 – Feb 2025

- Built and maintained REST APIs using Django and Flask with third-party integrations, JWT/token-based auth, and validation-backed ORM models for consistent data integrity across client-facing endpoints.
- Optimized PostgreSQL query performance, contributed to backend architecture planning and peer code reviews, and wrote unit and integration tests using PyTest to reduce regressions across feature releases.

EDUCATION

Amity University	Noida, India
Master of Computer Applications (MCA) — Specialization: AI/ML	Jan 2024 – Jan 2026
Dr. Bhim Rao Ambedkar University	Agra, India
Bachelor of Computer Applications (BCA)	Oct 2020 – Aug 2023