

Yashas R

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EDUCATION

Jyothy Institute of Technology

B.E. in Computer Science and Engineering; CGPA: 8.62/10.0

Bangalore, India

Sep. 2022 – Jun. 2026

EXPERIENCE

Way to Credit Pvt Ltd

Jul. 2026 – Present

Software Engineer Intern

Bangalore, India

- Sole developer; built and deployed a live internal loan-status portal designed for up to 300 concurrent staff; turned stakeholders' operating rules into owner, admin and user roles for knowledge-base curation, lookups and credits
- Designed a 14-table PostgreSQL schema with versioned Drizzle migrations; cached the description tree in Redis with version-key invalidation so user lookups resolve from cache instead of a multi-join query
- Built JWT auth over httpOnly cookies with refresh-token rotation and family-based theft detection, server-side RBAC on every route, and IST access windows that end in-flight sessions at the operating-hours cutoff
- Built an idempotent credits engine on an append-only ledger to prevent double-awards; set up GitHub Actions CI (lint, typecheck, tests) against a live Postgres container so schema drift fails the build

Supr Mentr Technologies Pvt Ltd

Jan. 2026 – May 2026

AI Intern

Bangalore, India

- Built an autonomous ReAct research agent on GPT-4o that turns open-ended requests from non-technical users into structured reports, backed by a unit-tested RAG pipeline (ChromaDB, OpenAI embeddings)
- Split ingestion, scraping, storage and reasoning into independently testable components, and traced poor retrievals to root causes in ingestion and cosine-similarity filtering

PROJECTS

SnipIt | *React, Express, MongoDB, JWT, Google OAuth* | [GitHub](#)

Jul. 2026 – Aug. 2026

- Built a URL shortener with a click-analytics pipeline that parses device, browser and OS from User-Agent headers and resolves geolocation via a third-party API, kept off the redirect path so tracking adds no redirect latency
- Added Google OAuth alongside JWT email/password, server-side search, filtering and pagination, and hardened the API with Helmet, rate limiting, bcrypt and IDOR-safe ownership checks

CodeVault | *Python, FastAPI, PostgreSQL, Redis, Docker, GitHub Actions* | [GitHub](#)

Jun. 2026 – Jul. 2026

- Secured multi-user snippet storage with JWT auth and ownership-scoped CRUD, verified by cross-user access tests
- Added Redis caching with invalidation, cursor-based pagination (replacing offset) and GIN-indexed full-text search for large tables, plus sliding-window rate limiting and idempotent writes
- Shipped public sharing with cryptographically random slugs to block link enumeration, and containerized the app with multi-stage Docker builds

Colorize | *Python, PyTorch, GAN, Streamlit, LAB Color Space* | [GitHub](#)

Dec. 2025 – Feb. 2026

- Built a conditional GAN (ResNet18-UNet generator, PatchGAN discriminator) that colorizes grayscale images by predicting LAB color channels, trained on 10,000 COCO images
- Cut convergence time by 70% with a 3-stage pipeline: baseline GAN, L1 pre-training of an ImageNet-pretrained ResNet18-UNet, then adversarial fine-tuning
- Deployed as a live Streamlit app for real-time colorization

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, C

Frameworks: FastAPI, Node.js, Express.js, React.js, REST APIs, JWT/OAuth 2.0, pytest

Data & Infrastructure: PostgreSQL, MongoDB, Redis, Docker, Git/GitHub, GitHub Actions CI/CD, Postman

AI & ML: PyTorch, Scikit-learn, TensorFlow, HuggingFace Transformers, LangChain, LangGraph, RAG, ChromaDB

ACHIEVEMENTS & LEADERSHIP

Co-Author: “IoT-Enabled Machine Learning for Detecting Nutrition Deficiency Disorders in Mulberry Leaves”, Taylor & Francis – CRC Press, 2024

LeetCode: 400+ problems solved with 1600+ contest rating

IBM Mindscape Finalist (2025): Led a 3-person team to the finals among 300+ competing teams

Rotaract Club, JIT (2024–25): Vice President; led a 30+ member chapter and its external partners and sponsors