

Punya Ira Anand

(248)-403-0422 | punyaianand01@gmail.com | [linkedin/punya-ira-anand](https://www.linkedin.com/in/punya-ira-anand) | [github/Punyanand](https://github.com/Punyanand) | punyanand.io

SUMMARY

Software Engineer with 5+ years of experience in full-stack development and cloud systems. Skilled in building scalable APIs, data pipelines, and high-performance web apps using Python, Flask, React, and AWS.

EDUCATION

The University of Texas at Dallas, United States

January 2024 – May 2025

Master of Science, *Information Technology and Management (STEM)*

Gyan Ganga Institute of Technology and Sciences, India

July 2015 – June 2019

Bachelor of Engineering, *Information Technology*

WORK EXPERIENCE

BreathIT - Engineering Intern, Seattle, WA

May 2025 – Present

- Constructed a modular agent-based analytics framework using LangGraph and A2A protocol, including a Structured Agent for SQL generation and an Unstructured Agent for document querying, expanding access to both types of data sources.
- Engineered an Orchestrator Agent with intelligent routing and summarization, enabling real-time, self-serve analytics through dynamic agent selection and unified multi-agent outputs.

University of Texas at Dallas - Research Assistant, Dallas, TX

May 2024 – May 2025

- Formulated an end-to-end ETL pipeline (Pandas, SQL) to integrate fragmented datasets from 3 sources into a centralized data warehouse, enabling cross-comparative analytics and cutting data preparation time by 70%.
- Performed EDA to identify trends, delivering actionable insights on Power BI dashboards; boosted team productivity by 60%.

Wipro Technologies - Senior Software Engineer

July 2022 – January 2024

- Designed 10+ HIPAA-compliant APIs (FastAPI) securing 35K+ patient records via JWT & RBAC; ensured zero breaches and 99.9% uptime.
- Developed and implemented 40+ SQL queries using indexing strategies, optimizing dashboard performance by 25%.
- Deployed a contact verification system for PagerDuty that updated Slack notifications for incomplete user data, improving incident response time by 50%.
- Automated reporting workflows using advanced SQL and SAS, cutting delivery time by 30%.
- Managed Jenkins pipelines for 50+ monthly CI/CD deployments, decreasing rollout failures by 25% via Splunk log analysis.
- Streamlined monitoring systems (Grafana, Splunk, Zabbix) that mitigated 80% of production incidents and improved MTTR to 15 min during on-call rotations.
- Led AWS cloud migration leveraging Python and Terraform to migrate 2,300+ on-prem servers to AWS, enabling real-time ETL of 50+ TB/day healthcare data and reducing deployment time by 55%.

Wipro Technologies - Software Engineer

January 2020 – June 2022

- Standardized scalable backend solutions and systemized data ingestion scripts using Python and Bash.
- Concentrated API response time by 45% via optimized DB design and caching strategies.
- Delivered real-time dashboards using Flask, PostgreSQL, and Redis, increasing data accessibility by 40%.
- Migrated clients' on-prem infrastructure to a scalable OpenStack environment using Chef for automated provisioning, cutting infrastructure costs by 25%.

ACADEMIC PROJECT EXPERIENCE

AI-Based Grocery & Meal Planner

- Built Grocery Smart, a full-stack app with React, Flask, and PostgreSQL to enable grocery list management, price comparison, and community-driven deal sharing; modular design and Supabase integration reduced feature dev time by 40%.
- Integrated OpenAI GPT-3.5 to power recipe search and AI-generated 5-day meal plans based on pantry items, improving user engagement by 40%.

Job Application Tracking and Analysis Platform

- Fostered a full-stack Flask platform (Python, SQLAlchemy, Pydantic) to log and monitor 300+ job applications, automate interview tracking, and calculate success metrics; decreasing manual monitoring by 80%.
- Enabled deadline alerts using APScheduler and SMTP, implementing real-time querying & email notifications, eliminating missed deadlines by 80%.

TECHNICAL SKILLS

Programming Languages: Python, SQL, TypeScript, JavaScript, Java, Shell Scripting

Full-stack/ Cloud: FastAPI, Flask, Node.js, Kafka, Kubernetes, Redis, Microservices, React, Material-UI, AWS (S3, Lambda, Glue)

Databases/Data Engineering & Analysis: MySQL, MongoDB, DynamoDB, Snowflake, Spark, ETL, DBT, Airflow, Power BI, Tableau

DevOps & Tools: Jenkins, CI/CD, Terraform, Docker, Chef, Grafana, Zabbix, Splunk, Jira, Linux, Agile, Git

CS Fundamentals: Object-Oriented Programming, Design Patterns, Algorithms, Unit-testing, Debugging, SDLC, REST API

Certifications: AWS Certified Solutions Architect – Associate, AWS Certified AI Practitioner – Foundational