Ayush Anand Srivastava

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PROFESSIONAL EXPERIENCE

Technical Lead
April 2025 – Present

Wipro
Client: Bank of America

- Designed and built a Spring Boot service, using Spring Data and PostgreSQL, that screens ~500K trades per batch run for market-abuse patterns (spoofing, layering, marking the close), exposing versioned v1/v2 REST APIs.
- Contributed to migrating a legacy Django monolith to containerized microservices on Kubernetes, replacing a single deployment pipeline with independently deployable backend services and faster release cycles.
- Built an asynchronous ingestion pipeline with gRPC and Kafka for library-usage events, persisted in Oracle, giving more than 50 model development teams near-real-time visibility into technology adoption and deprecated-code usage.
- Led a team of six engineers in designing a CI/CD pipeline with Bitbucket, Jenkins, and Ansible Tower that automates build, testing, and deployment, reducing release cycles from two weeks to on-demand deployments.
- Optimized Autosys trade-data batch pipelines through incremental processing of new and updated records, and used Splunk root-cause analysis to accelerate production incident resolution and reduce recurring issues.

Senior Software Engineer
September 2023 – April 2025

Accubits Technologies Inc.

- Re-architected the interview module of an employee-engagement platform into containerized microservices on Docker and Kubernetes through a zero-downtime migration, reducing server costs.
- Owned the design and delivery of an interview-scheduling microservice in Python using FastAPI, SQLAlchemy, and PostgreSQL, cutting API latency from 750 ms to 180 ms through query indexing and Redis caching.
- Implemented metrics-based monitoring and alerting with Prometheus and Grafana across interview-workflow microservices, improving mean time to detect production issues.
- Built an event-driven backend using Celery for asynchronous file generation (cutting processing latency by 40%) and Redis Pub/Sub for real-time processing of counselor-initiated interviews.
- Owned the Golang (Gin) and MongoDB backend of a CRM and order-management platform for 60+ builders (~8,000 orders/month); designed schema and indexes that kept key APIs under 150 ms at p95.

Software Developer
February 2022 – September 2023

CEDCOSS Technologies Private Limited

- Developed and maintained REST APIs for a Shopify–Google integration platform using Django REST Framework, supporting more than 5,000 daily active users across multi-tenant merchant accounts.
- Built event-driven AWS Lambda functions triggered by Shopify webhooks to synchronize product updates to Google Shopping in near real time, reducing synchronization failures by 40%.
- Redesigned the MongoDB data model by consolidating per-user and product collections into unified collections, improving query performance and simplifying schema management through targeted indexing and MongoDB Profiler analysis.
- Implemented GitLab CI/CD pipelines to automate deployments, replacing manual FileZilla-based uploads and reducing deployment time by more than 50%.
- Used Boto3 with AWS SQS to handle large-scale product-upload batching and automated Shopify-to-Google synchronization, with scheduled cron jobs preventing product-listing expiration on Google.

Sr. Executive
January 2021 – February 2022

Augurs Technologies

- Built a full-stack HRMS and payroll system (React, Django, MySQL) and Flask REST APIs for a roadside-assistance app.
- Automated application builds and deployments using Jenkins, Docker, and AWS EC2.

Software Developer
June 2020 – January 2021

Skyracle Technologies

- Built a Django and MySQL e-commerce platform, deployed on AWS EC2 with auto-scaling.

Python Developer
June 2018 – May 2020

DiziVita Solutions

- Built Django/Flask e-commerce platforms with real-time sales dashboards and Stripe/PayPal integration

PROJECTS

- **Verspect** — Open-source, self-hosted dependency-intelligence platform for GitHub repositories. Analyzes dependency manifests and lockfiles across multiple ecosystems to identify vulnerabilities (OSV), license risks, package health, and dependency usage, with an upgrade-impact simulator and AI-assisted migration recommendations and code suggestions. Implements a provider-agnostic LLM architecture supporting Ollama, OpenAI, Gemini, Groq, and OpenRouter, with structured prompting and Pydantic-validated JSON outputs. Built with FastAPI, PostgreSQL, Redis, Celery, and Next.js/TypeScript; containerized with Docker Compose. CI runs pytest, Vitest, and TypeScript type checks.
- **Unwreck** — Open-source Rust CLI, published on crates.io, that enables turn-level undo and recovery for AI coding agents, including Claude Code, Codex, and Gemini CLI. Uses incremental, content-addressed snapshots to capture working-tree changes, including shell edits and untracked files, with conflict-aware restoration. Achieves 27.7 ms median snapshot time on an unchanged synthetic 10,000-file tree.
- **Goblip** — Open-source, zero-dependency Go file watcher built entirely with the standard library. Monitors file changes and automatically restarts Go applications, with configurable polling and graceful shutdown.
- **AI Team OS** — AI-powered, multi-agent workspace for coordinating projects through specialized AI agents, task orchestration, and RAG-grounded knowledge retrieval. Supports document uploads and GitHub documentation ingestion, with a FastAPI backend, PostgreSQL/pgvector, Redis, and Next.js. Includes Docker Compose deployment, authentication, project management, and CI.

OPEN-SOURCE CONTRIBUTIONS

- **HOL Guard** — Contributed an Unwreck command-protection extension, including command capability rules, safety boundaries, and a 43-case regression fixture. The contribution was merged upstream.
- **Activist** — Contributed frontend unit tests for Vue components and sidebar state management, covering component rendering, state transitions, responsive behavior, and utility functions. Two pull requests merged upstream: #1656 and #1657.

TECHNICAL SKILLS

Languages	Python, Go, Java, Rust, JavaScript, TypeScript
Frameworks	FastAPI, Django, Spring Boot, Gin, Next.js, React
Databases & Messaging	PostgreSQL, MySQL, MongoDB, Redis, Apache Kafka, RabbitMQ
Cloud & DevOps	AWS (EC2, S3, Lambda, RDS, SQS, CloudWatch), Microsoft Azure, Docker, Kubernetes, Terraform, GitHub Actions, GitLab CI/CD, Jenkins, Prometheus, Grafana
GenAI & LLMs	Azure OpenAI, LangChain, LangGraph, Pinecone, RAG

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Microsoft Learn Challenge: Build AI apps with Microsoft Azure services
- Databricks Certified Data Engineer Associate
- Astronomer Certification for Apache Airflow 3 Fundamentals
- Astronomer Certification DAG Authoring for Apache Airflow 3

EDUCATION

M.Tech (CSE) — Integral University, Lucknow 2022–2024

B.Tech — Shri Ramswaroop Memorial University 2014–2018

AWARD

Employee of the Month — DiziVita Solutions 2019