Darshan Goswami

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Objective

Full-stack Software Engineer focused on production AI systems - building secure multi-tenant backends on GCP and shipping agentic, tool-calling workflows with multimodal OCR and LLM observability to streamline real user operations.

Skills

Programming: Python, TypeScript, JavaScript, HTML, CSS, Go, Java, C#, C/C++, PHP, R, SQL
Frontend: React, Next.js, Vue.js, React Native, Vite, Tailwind CSS, Zustand/Redux, React Query, jQuery
Backend: Node.js, Express.js, FastAPI, Flask, Spring Boot, .NET, REST, JWT/OAuth, RabbitMQ
Data/DB: PostgreSQL, MySQL, MongoDB, SQLite, Prisma, Supabase, Multi-tenancy, RLS
AI/LLM: LangChain, LangGraph, Google ADK, LlamaIndex, RAG, Tool-calling/Orchestration, MCP, LangSmith, n8n
Cloud/DevOps/Other: GCP (Cloud Run, Cloud SQL, API Gateway, VPC, IAM/Service Accounts, Cloud Logging), AWS, Docker, Kubernetes, Linux, Git, CI/CD, Unit Testing, OpenTelemetry, PyTorch, TensorFlow, Excel, Tableau

Experience

Full-Stack Engineer - AI Ethique AI **08/2025 - Present**

- Improved cross-org data security by building a multi-tenant PostgreSQL Database on Cloud SQL platform with RLS and tenant-aware access, resulting in strict isolation for a multi-org production pilot built to scale.
- Scaled backend reliability by shipping a tenant-aware Node.js API on Cloud Run behind GCP API Gateway, secured with service accounts + VPC and Cloud Logging, handling ~10,000 requests/day with audit-friendly access controls.
- Reduced intake effort and turnaround time by developing multi-modal OCR services using Pixtral and Docling, resulting in 75% faster intake processing and 80% fewer manually entered fields.
- Increased case workflow throughput by building LangGraph and Google ADK agentic workflows with permissioned tool-calling orchestration, resulting in reliable in-app actions and monitored performance via LLM observability tools.

Full-Stack Developer Cogniverse Labs **10/2016 - 07/2019**

- Developed and maintained scalable web applications using React, Node.js, and Python (Flask), enabling real-time data handling via REST APIs and efficient Docker containerization, achieving a 40% decrease in page load time.
- Designed and deployed cloud infrastructure using AWS, including EC2, S3, and Lambda, optimizing performance to handle over 200,000 monthly users without downtime.
- Led adoption of Test-Driven Development (TDD), creating comprehensive unit tests that reduced production bugs by 25%, significantly improving software reliability and maintainability.
- Collaborated within Agile/SCRUM teams, contributing to daily standups, sprint planning, system flow diagrams, code reviews, and CI/CD pipelines, increasing release frequency from monthly to weekly deployments.

Projects

Shufflefy | *Python, Flask, React, Vite, Spotify API* **GitHub**

- Developed a full-stack web application enhancing Spotify's shuffle feature by implementing a novel randomization algorithm, achieving over 80% improvement in track distribution uniformity compared to Spotify's default shuffle.
- Implemented secure user authentication with OAuth 2.0, seamlessly integrating Spotify's API to enable functionalities such as real-time playlist creation, shuffling remote queues, and personalized music management.
- Engineered responsive frontend interfaces using React and Vite, optimizing page load speed by 35% compared to traditional approaches.

Car Parking Counter | *Python, NumPy, Pickle, OpenCV, CvZone* **GitHub**

- Engineered an intelligent parking monitoring system leveraging OpenCV and CvZone, capable of real-time detection and tracking of available parking spaces, achieving 95% accuracy in occupancy detection.
- Utilized NumPy and advanced image-processing techniques to process live CCTV feeds, substantially reducing manual parking management effort by 60%.

COVID-19 Tracker | *React, Material UI, LeafletJS, ChartJS* **GitHub**

- Developed an interactive web app visualizing live COVID-19 statistics globally and locally, serving 10,000+ active users.
- Improved UI responsiveness by optimizing API integrations, reducing load times by 30%, enhancing user experience.

Education

Purdue University Indianapolis, IN
Master of Science in Computer & Information Science GPA: 3.83 **05/2025**

University of Mumbai Mumbai, India
Bachelor of Science in Computer Science GPA: 9.11/10 **05/2022**