Preet Patel

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Summary

Software Engineer with **4+ years** of experience across industry roles and internships building **backend and distributed systems**, production automation, and reliability tooling. Strengths include **debugging complex failures**, designing service boundaries/APIs, and improving operational visibility with **telemetry (logs/metrics/tracing)**. Experience integrating **LLM/RAG agent workflows** with evaluations and retrieval patterns to improve quality and safety in real applications.

Technical Skills

Languages	Python, JavaScript/TypeScript, Node.js
Backend/Systems	REST APIs, Microservices, Queues, Caching, RBAC, Distributed Tracing/Telemetry, Reliability
Cloud/DevOps	AWS (EC2, S3, Lambda), Docker, Git, GitHub Actions, CI/CD, Linux
Datastores	PostgreSQL, MongoDB, MySQL, Firebase
AI/ML	PyTorch, OpenCV, CNNs, LLM Agents (RAG, evaluations, prompt orchestration)

Experience

Ocean Shark LLC Sep 2025 – Present
Software Engineer (Full-Time) *New Jersey, USA*

- Led development of scalable backend services in **Node.js & Python** backed by **PostgreSQL**, queues, and caching for data-intensive workflows and internal platforms.
- Implemented **observability + distributed tracing** (service-level telemetry, structured logs, debugging hooks), reducing time-to-diagnose production failures by **~45%**.
- Integrated **LLM agent workflows** (prompt orchestration, embeddings retrieval, golden-set evaluations, hill-climb tuning) to improve output quality and system robustness.
- Defined API contracts and service boundaries; partnered cross-functionally to deliver features end-to-end with reliability and security considerations.

Ocean Shark LLC Jun 2024 – May 2025
Software Engineer Intern *United States — Hybrid*

- Built and scaled **Node.js + AWS** microservices; improved query plans and caching strategies to reduce backend **P50 latency by ~30%**.
- Developed **CI/CD pipelines** with **Docker** and **GitHub Actions**, reducing deployment overhead by **~50%** and improving release safety.
- Designed internal APIs and **RBAC middleware** with validation and audit logging to support multi-tenant usage and controlled access.
- Built internal monitoring tools to track job throughput and system health signals, improving operational clarity and on-call response.

Adaptable Services Nov 2022 – Jul 2023
Full-Stack Developer *India — On-site*

- Delivered full-stack product features with emphasis on backend correctness, API stability, and maintainable code structure.
- Built operational dashboards and admin tooling to improve visibility into workflows and reduce manual coordination overhead.

Eve Healthcare May 2020 – Nov 2022
Software Engineer *India*

- Developed backend components for healthcare workflows; supported production debugging and implemented fixes to reduce repeat incidents.
- Improved validation and logging patterns to increase data correctness and speed up root-cause analysis in production.

Bosch Chassis Systems India Pvt. Ltd Jun 2022 – Aug 2022
Machine Learning Engineer Intern *Pune, India*

- Analyzed **100,000+** time-series datapoints; built models to flag abnormal patterns and predict maintenance windows.
- Automated Python ETL/reporting and dashboards; reduced manual diagnostic workload by **~40%** and improved alert signal quality.

Education

New York University Sep 2023 – May 2025
M.S. in Computer Science *GPA: 3.59*

Selected Engineering Projects

Food Calorie Measurement Using DNN | *Python, PyTorch/Keras, Flask, AWS* GitHub

- Built an end-to-end ML system (data pipeline → training → inference) with a service-style interface for predictions.
- Focused on production-style engineering concerns: API contracts, input validation, failure handling, and predictable performance under varied inputs.
- Tracked quality via repeatable evaluation runs (accuracy + error analysis) and iterated using measurable experiments.
- Achieved **92%** test accuracy on a **10K+** image dataset; documented assumptions, limitations, and edge cases.

PaperCupPro — Inventory & Staff Management | *SQL, Backend APIs, RBAC* GitHub

- Built a role-based inventory and workforce workflow platform with clear permission boundaries and auditable operations.
- Designed data model and API surface to support stable CRUD, search/filtering, and operational reporting for admins.
- Implemented scheduling + notification flows; reduced manual coordination by **60%**.
- Optimized common paths with indexing/pagination patterns to keep the UI responsive as records grew.