

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 <i>New Jersey, USA</i>
<i>Software Engineer (Full-Time)</i>	
• 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
<i>Software Engineer Intern</i>	<i>United States — Hybrid</i>
• 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
<i>Full-Stack Developer</i>	<i>India — On-site</i>
• 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
<i>Software Engineer</i>	<i>India</i>
• 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
<i>Machine Learning Engineer Intern</i>	<i>Pune, India</i>
• 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
<i>M.S. in Computer Science</i>	<i>GPA: 3.59</i>

SELECTED ENGINEERING PROJECTS

Food Calorie Measurement Using DNN <i>Python, PyTorch/Keras, Flask, AWS</i> 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 <i>SQL, Backend APIs, RBAC</i> 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.