Kakksh Riinkesh Patel

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EDUCATION

University of North Carolina at Charlotte <div align="right">Charlotte, NC</div>
Bachelor of Science in Computer Science| GPA: 3.6/4.0 <div align="right">May 2026</div>
Relevant Coursework: Data Structures, Intro to AI, Software System Development, Operating Systems, Software Engineering, Affective Computing, Web Development, Computer Architecture

SKILLS

Languages: Python, Java, JavaScript, SQL, C, C++, C#
Frameworks: React, .NET, Node.js, Express, Django, FastAPI, Flask, REST APIs
Databases/Infra: PostgreSQL, MySQL, MongoDB, Redis, Docker, AWS, Git/GitHub, CI/CD (GitHub Actions)
ML/LLMs: PyTorch, TensorFlow, Hugging Face Transformers, LangChain, OpenAI API, LLMs, DistilBERT

EXPERIENCE

TrailTail Inc - Software Engineer Intern | Charlotte, NC <div align="right">May 2025 – Present</div>
- Designed and delivered full-stack features (geospatial trail search, trip planning, reviews) by owning REST API design, database schemas, and responsive UIs end-to-end in a production environment
- Improved application performance by ~79% p95 latency reduction through SQL query optimization (EXPLAIN/ANALYZE), composite indexing, N+1 query elimination, and Redis caching reducing response times from 850ms to 180ms during peak traffic
- Enabled fast, reliable deployments by containerizing services with Docker, implementing CI/CD pipelines (GitHub Actions), and collaborating with product and design teams through code reviews and agile sprints

Paramount Business Solutions Inc - Software Engineer Intern | Chicago, IL <div align="right">May 2024 – Aug 2024</div>
- Optimized SQL database workloads by reviewing execution plans (EXPLAIN/ANALYZE), refactoring JOINs, and implementing targeted indexes cutting p95 query time by 47% and reducing CPU/IO by 33% in reporting
- Built Python utilities and regression tests to validate ETL feeds and data quality, catching defects early and preventing performance regressions prior to release
- Developed stakeholder-facing insights via Tableau dashboards and ad-hoc SQL reports driving 2.2× self-serve adoption, reducing ad-hoc requests by 56%, and saving ~32 analyst hours/month
- Collaborated remotely with consultants and cross-functional teams to clarify requirements, document schemas and indexing guidelines, and deliver reliable, data-driven enhancements on schedule

PROJECTS

Hair Salon Booking System - Full-Stack Developer <div align="right">GitHub | View Project</div>
- Built a production-ready full-stack web application using React/Vite and Django REST, enabling users to browse services, book appointments, and manage profiles
- Implemented secure authentication (JWT) and payment processing (Stripe Checkout with webhooks) integrated with PostgreSQL, achieving 99.2% successful booking completion rate and zero payment failures
- Deployed scalable architecture with frontend on Vercel and backend on Render, managing environment secrets and database migrations while collaborating in Agile sprints using Jira and GitHub

FlowDesk AI - Full-Stack Developer <div align="right">GitHub | View Project</div>
- Built a ticket management SaaS with JWT/RBAC authentication, audit logging, and multi-step approval workflows using FastAPI, PostgreSQL, and Next.js for end-to-end ticket lifecycle management
- Implemented AI ticket triage with OpenAI API to auto-classify priority/category and generate response suggestions, enabling intelligent routing and reducing manual effort
- Designed async job infrastructure using Celery + Redis for SLA monitoring and automation; containerized stack with Docker Compose for streamlined local development

Sentiment Analysis App - NLP Developer <div align="right">GitHub | View Project</div>
- Built a Flask sentiment analysis application with VADER (default) and optional DistilBERT backend achieving 90% accuracy, featuring model caching and input validation for fast inference
- Designed responsive web interface for single/batch text analysis with confidence scoring and implemented CI/CD testing pipeline using Pytest and GitHub Actions

LEADERSHIP AND COMMUNITY

Badminton Club | UNC Charlotte <div align="right">Aug 2024 – Present</div>
- Maintained club records, managed correspondence, and scheduled 20+ events to ensure smooth operations

Thanksgiving and Christmas Donation drive <div align="right">Nov 2022 – Present</div>
- Led a team of 20 volunteers to organize a donation drive, collecting clothes, toys and books for children