Yaseen Patel

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EDUCATION

Georgia Institute of Technology - Atlanta   *Incoming: Jan 2026*
M.S in Computer Science

University of California - Irvine   *Expected Graduation: Dec 2025*
B.S. in Computer Science | 3.75 GPA
Relevant Coursework: Data Structures & Algorithms, Machine Learning and Data Mining, System Design, Cloud Computing

EXPERIENCE

Undergraduate AI/ML Researcher   Jan 2025 – Current
BiasLab @ UCI   Irvine, CA
- Implemented machine learning models for image classification on MNIST and FMNIST datasets using MLP and CNN
- Developed an **LLM-powered** web scraper to efficiently extract and analyze structured text from online sources
- Conducted extensive experiments and benchmarked deep learning models, achieving a **15%** improvement in accuracy
- Explored hybrid computing methods to improve model efficiency and interpretability for large-scale datasets
- Automated data preprocessing and augmentation using NumPy and Pandas, **accelerating training workflows by 30%**

Data Engineering Intern   Oct 2024 – Jan 2025
Curtin Maritime   Long Beach, CA
- Built dynamic query jobs and scheduling logic, enabling automated execution via trigger conditions and refresh rates
- Created and thoroughly tested API request URLs with dynamic query parameters, optimizing retrieval **efficiency by 25%**
- Matched API response structures to SQL tables, ensuring data integrity and consistency across ingestion processes
- Investigated source locations, input/output datasets, and transformation logic within **ETL pipelines** for accuracy

Software Engineering Intern   Jun 2024 – Aug 2024
Headstarter AI   New York, NY
- Developed 5+ applications and APIs using Next.js, Gemini, Pinecone, achieving **96% accuracy as reported by 100+ users**
- Utilized Agile methodologies, **CI/CD**, and **Git** to lead project from ideation to deployment, following an iterative SDLC
- Implemented detailed model evaluation metrics to assess and improve model accuracy and overall system efficiency

Software Engineering Lead   Oct 2023 – Jun 2024
Artificial Intelligence @ UCI   Irvine, CA
- Led AI workshops and coding sessions, **increasing club engagement by 30%** and enhancing members' technical skills
- Developed AI models in Python for club projects and hackathons, encouraging collaboration and hands-on learning
- Designed starter codebases and notebooks to streamline ML collaboration, allowing rapid modeling during hackathons

PROJECTS

UFA Fantasy App | *Python, HTML, CSS, SQL, Flask, React, UI/UX*   *Sep 2024 – Dec 2024*
- Designed and developed a Fantasy Football App using React and Flask, tracking stats for a local 80-player league (UFA)
- Enhanced SQL database performance, reducing **query time by 40%** and significantly boosting overall app speed
- Optimized load times with code-splitting and lazy loading, resulting in a **30% improvement in page rendering speed**
- Integrated user authentication and session management features to significantly enhance secure user access

SmartAssist AI | *Next.js, React, Material-UI, Gemini API, Firebase, CSS*   *Jul 2024 – Aug 2024*
- Led a team of 4 Engineers to develop and deploy a dynamic UI to 100+ users, resulting in **25% improvement in latency**
- Resolved **50+** bugs and improved scalability by designing a feedback system, ensuring a smooth, reliable experience
- Integrated Google's Gemini 1.0 Pro model for AI-driven responses, enhancing **response accuracy by over 90%**
- Collaborated with **several stakeholders** to develop an AI-powered assistant using Next.js, React, and Material-UI

SKILLS

Languages/Frameworks: Python, SQL, C++, JavaScript, HTML, PyTorch, TenserFlow, Flask, React, Next.js, Node.js, Docker, Git
Certifications/Achievements: AWS Certified Cloud Practitioner, x4 Honor Roll, UCI CS Distinguished Student