Yash Patel

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Education

University of Illinois Urbana Champaign EXP: Dec 2028

Bachelor of Science in Computer Science and Math *GPA: 3.88/4.00*

- **Relevant Coursework:** Data Structures & Algorithms , Discrete Structures, Computer Programming
- **Certifications:** Web-Development Bootcamp (Udemy), Java(Codecademy), HTML(Codecademy)

Experience

Software Developer Intern Nov. 2025 – Present

OpenQQuantify *Remote*

- Built internal tools and automation pipelines leveraging **CI/CD**, **Docker**, and cloud-native development tools.
- Improved platform scalability by optimizing services for **20–40% lower latency** and increased reliability.
- Collaborated with engineers to design backend components using scalable API architecture and Git workflows.

Machine Learning Research Assistant Aug. 2025 – Feb 2026

University of Illinois Chicago *Chicago, IL*

- Conducted an LLM hallucination analysis by generating, validating, and reviewing model-produced statements using **Python** and core NLP workflows..
- Built scalable text-processing pipelines with **Hugging Face**, **PyTorch**, and similarity metrics.
- Applied prompt engineering, inference optimization, and ML evaluation to assess generative reliability.

Machine Learning Intern May. 2025 – Aug. 2025

University of Illinois Chicago *Chicago, IL*

- Designed and built an AI system using **LLMs** to automate and evaluate patent-style text, supporting data engineering and experimentation workflows
- Engineered scalable data pipelines and **NLP** preprocessing systems using Python to prepare large unstructured text for efficient LLM/ML analysis.
- Applied evaluation metrics and embedding**-**based similarity methods to assess factual accuracy.

Web Development Boot-camp May. 2025 – Aug. 2025

Udemy *Remote*

- Built and deployed full-stack web applications using **JavaScript**, **Node.js**, **Express**, **MongoDB**, and **HTML/CSS**, following clean architecture.
- Designed responsive, accessible UIs and implemented **REST APIs**, authentication, and form validation.
- Built reusable UI components and clean layouts to enhance overall user experience.

Projects

EcoSphere | *React.js, FastAPI, Tailwind CSS, Google Cloud, Clerk Auth* Sept 2025 – Present

- Built a **sustainability** based full stack application helping users discover location-based **Solar Panel** options.
- Implemented provider integrations, including **Google Places**, custom recommendation engines, and secure authentication with Clerk.
- Planning to deploy the platform using **Google Cloud Run** for the backend and **Vercel** for the frontend for scalability and global performance.

Personal Website | *HTML5, CSS, Javascript, Booststrap* May 2025 – June 2025

- Developed a personal portfolio website using HTML, CSS, JavaScript, and Bootstrap to show experience & skills.
- Implemented interactive components, responsive design techniques, and clean UI structure.

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML5/CSS3,
Frameworks: React, Node.js, Flask, JUnit, WordPress, Bootstrap, Material-UI, FastAPI
Developer Tools: Git, Linus, Docker, TravisCI, Google Cloud Platform, PyCharm, Eclipse
Databases & APIs: MongoDB, Mongoose, FastAPIs, RESTful APIs, JPostgreSQL