

# Dhruv Raval

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## EDUCATION

### University of Illinois at Urbana-Champaign

*Masters of Computer Science*

Champaign, IL

Graduation: **May 2026**

### University of Illinois at Urbana-Champaign

*Bachelor of Science in Computer Science and Economics* | **GPA: 4.0/4.0**

Champaign, IL

August 2022 - May 2025

## EXPERIENCE

### Capital One

*Software Engineering Intern*

New York City, New York

June 2025 - Aug 2025

### Honeywell

*Software Engineering Intern III*

Kansas City, Missouri

Jun 2024 - Aug 2024

- Spearheaded the company's first **Retrieval Augmented Generation (RAG) LLM** efforts by optimizing embedding models and chunk sizes on a locally-hosted model.
- Engineered a secure data pipeline, enabling a **300+ member business unit** to develop new applications by creating a Python API for efficient data access from Apache HDFS.
- Led the alpha deployment of an internal software product by deploying containerized **.NET microservices** using **Docker**.

*Software Engineering Intern II*

Jun 2023 - Jun 2024

- Finalized an internal software product with a deployment scale of **10,000+ users** by designing backend infrastructure and implementing RESTful APIs for data transmission.
- Automated a high-visibility manual process by deploying a MongoDB NoSQL database and API, reducing engineers' data retrieval time by **over 90%**.

## LEADERSHIP AND INVOLVEMENT

### Disruption Lab at Gies

*Technical Director*

Champaign, Illinois

Dec 2024 - Present

- Managing over **80 student software engineers across 10 technical projects** for clients ranging from startups to Fortune 500 companies to government agencies.

*Head of Technology*

Jun 2024 - Dec 2024

- Led technical development for four AI/ML projects while managing 25+ software engineers, resulting in the successful delivery of solutions to clients such as the University of Illinois and OSF Healthcare.

*Technical Product Manager/Software Engineer*

Aug 2023 - May 2024

- Managed a team of 6 software engineers and delivered a full-stack AI resume management system for the University of Illinois.
- Delivered a full-stack internal documentation chatbot to a client by creating a **Retrieval Augmented Generation (RAG)** model with Langchain and OpenAI.

## PROJECTS

**Mera** | *Python, Javascript, Kafka, OpenAI, ElevenLabs*

Aug 2024

- Created a voice-activated AI Chrome extension that automates browser tasks using OpenAI Whisper, ElevenLabs, Kafka, Python, and Javascript.
- Directed the product lifecycle from MVP to public launch by defining the roadmap and creating features, resulting in the acquisition of **multiple paid beta users**.

**Safety Scan** | *Python, OpenCV, Figma*

Sep 2022 - Feb 2023

- Created a computer vision object recognition model tracking safety equipment usage in manufacturing environments using **OpenCV** and raised **\$21,000** in non-dilutive funding.

## TECHNICAL SKILLS

**Languages:** Python, Java, C, C#, JavaScript, HTML/CSS, SQL

**Frameworks/Technologies:** MongoDB/NoSQL, GraphQL, Flask, JUnit, OpenCV, NLTK, Kafka, React

**Developer Tools:** Git, Docker, Jira, Confluence