

Dhyey Patel

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EDUCATION

Eastern Michigan University

Master of Science, Computer Science – **GPA: 4.0/4.0**

Ypsilanti, MI

August 2025 - December 2026

University of Cincinnati

Bachelor of Science, Computer Science with Math Minor – **GPA: 3.744/4.0**

Cincinnati, OH

August 2020 - May 2025

SKILLS

Languages: Python, TypeScript/JavaScript, Java, C++, SQL

Frameworks: React, Next.js, Node.js, Express, Flask/Django, REST APIs

Databases: PostgreSQL, MongoDB, Prisma ORM, SQL schema design

Tools: Git, Docker, Linux, AWS (EC2, S3), CI basics (Git workflows), D3.js

CMS: Modern Campus (Omni CMS), PCF/XSLT templating, accessible UI patterns

Certifications: IBM Data Science Practitioner; IBM Design Thinking Practitioner; Cybersecurity Virtual Apprenticeship (iQ4)

EXPERIENCE

Eastern Michigan University

Ypsilanti, MI

Web Developer Graduate Assistant

Sep 2025 - Present

- Built **3 transfer-planner tools** (HFC/Schoolcraft/WCC to EMU) by converting articulation guides mappings into a **structured JSON dataset** and implementing an **accessible search + results UI** in Omni CMS, replacing static link directories with interactive program lookup.
- Implemented **accessibility-first UI behavior** (keyboard navigation, focus management, screen-reader-friendly markup) and **shareable results** via URL parameters to improve usability for transfer applicants.
- Refactored list-heavy pages into **data-driven components** using JavaScript + CMS templating to improve consistency and reduce maintenance effort for non-technical editors.
- Standardized **RMI inquiry forms and tracking workflows** across program pages, increasing inquiries by ~2x.
- Updated and validated **catalog links across ~400 program pages** for the new academic year, reducing broken URLs and keeping program pages aligned with current catalog information. Owned tickets end-to-end.

Givaudan

Cincinnati, OH

Front End Developer Intern

April 2023 - August 2023

- Migrated an AI-integrated desktop app (“ATOM”) into a **React** web application to enable cloud delivery and faster feature iteration across stakeholders.
- Built dynamic UI features for “Insight”, including a custom video player and interactive views to improve user experience.
- Ported R and MATLAB algorithms to JavaScript to run in the web stack while preserving output parity for scientific workflows.

Web Developer Intern

August 2022 - December 2022

- Optimized an R-based analytics workflow using caching and lighter libraries, cutting data load time by 80% and response time by 30%.
- Built **3 D3.js visualizations** to explore large datasets, reducing analysis time by 40% for end users.
- Worked in Agile standups and **Git-based workflows**; contributed features through review and iteration.

PROJECTS

Job Fair Match - <https://github.com/Dhyey-Patel28/job-matching-platform> | <https://job-fair-match.vercel.app/> | *September 2024 - December 2025*

- Built a **swipe-based job matching web app** using Next.js + TypeScript + Prisma + PostgreSQL (Neon); deployed on Vercel with production-ready routing and UI state.
- Designed relational schema and implemented API endpoints for profiles, swipes, and matches, enforced data integrity and fast lookups.
- Implemented authentication/authorization for user sessions and protected actions (logins, swipes, match retrieval).

Automata Workbench - <https://github.com/Dhyey-Patel28/automata-workbench>

October 2024 - November 2025

- Implemented core automata algorithms (NFA to DFA conversion, DFA minimization) and validated correctness with test cases.
- Built an interactive UI to input automata and visualize states/transitions to support debugging and learning.

Drone Flight Data Analytics - *Private repo (architecture + demo available on request)*

October 2024 - November 2025

- Built a reproducible data pipeline for drone telemetry using Kafka + Spark on AWS (EC2/S3), generated analysis and visualizations for flight data.

Senior Design Project: SegLungAI - <https://github.com/Dhyey-Patel28/SegLungAI>

August 2024 - April 2025

- Built a U-Net/ResNet-based segmentation pipeline, achieving about **0.9 as IoU score** in lung segmentation for neonatal chest scans.

AWARDS

Graduate Assistantship (Full Tuition Waiver)

September 2025

UC Global Scholarship, International Outreach Scholarship, Bearcats Everywhere Scholarship

November 2020

Dean's List, Fall 2020 - Spring 2025

February 2021